### 303 NOT ACCEPTABLE ISIA : STON 87SA MT&A SS ROUND BAR AS PER 815/405 ISIA : JAIRETAM STOCK 5/12/2018 5 13:02 / 11 1280708 304 Round Bar 0.375 : 27E.0940EM 303 NOT ACCEPTABLE ISIA : STON 87SA MTZA SS ROUND BAR AS PER BIENAL: AISI 304/316 5/12/2018 S 1.72/ft Stock 0280708 304 Round Bar 0.4375 : M304R0.4375 ASTM B221 receive ft 90 FESH MTSA 90 0914 2MA 9O 8/00S-A OQ-A-200/8 OR AMS-QQ-4117/4128/4115/4116 OR SMA 90 8\255-A QQ-A-225/8 OR AMS-QQ-**REGISTALIAN BAR PER** S9T\ff83T\0f83T\f83T\8 MATERIAL: 6061-5/12/2018 \$ 4.00 / 6 \$070819 Stock 08.1 X 027, 168 8T-1608 002, 10X02T 089T 1608M ASTM B221 receive ft OR ASTM B211 OR 0914 2MA AO 8\00S-A QQ-A-200/8 OR AMS-QQ-A117/4128/4115/4116 OR SMA 90 8\2SS-A QQ-A-225/8 OR AMS-QQ-ALUMINUM BAR PER T6/T651/T6510/T6511/T62 8.00" : MATERIAL: 6061-8180708 X ""087. 168 9T-1909, 000.80X027.089T1909M Stock 5/12/2018 5 20.95 / ft B221 receive ft MTSA 90 1558 MTSA AO 0314 2MA AO 8\000 A-DD-2MA 90 8\00S-AA 4128/4115/4116 OR QQ-TILY SWY AO 8/225-A-00-2MA AS PER QQ-A-225/8 OR ALUMINUM ROUND BAR Z3T\ff33T\0f23T\f33T\3T -16061-16 Round Bar .750\*\* \$tock 5/12/2018 5 1.55 / ft Z180Z0S 027.093T1303M MTSA 90 ISS8 MTSA RO 0814 2MA RO 8/002 -A-DO-2MA 9O 8/00S-AA 4128/4115/4116 OR QQ-TILD SWA AO 8/225-A-DD-2MA AS PER QQ-A-225/8 OR ALUMINUM ROUND BAR Z3T\ff83T\0f83T\f83T\8 -1909 3.750"": MATERIAL: 2/12/2018 S 52.73 / H \$070816 Stock 168 bnuo9 3T-1303 085.6A8T1808M RO 8/03S-A-DD-2MA MT2A RO 3104 2MA PER QQ-A-250/8 OR SA TEET AS MATERIAL: 5052-H32 MSOSZH32S.032 12/2018 S 1.97 / SI S070815 Stock 5052-H32 .032 Sheet : MT2A 90 8104 2MA AO 8/025-A-00-2MA PER QQ-A-250/8 OR **SA TEET AS** 5052-H32 .040 Sheet : MATERIAL: 5052-H32 S070814 \$ Stock 5/12/2018 5 2.34 / sf 84 5/11/2018 Net 30 | WE052H32S,040 PO039776 ACI001-VC Part Project Equipment Order Supplier Item No Date oN dol Quantity Date Status Status Status Price/Unit Description Terms ON Od Purchased Item Receive Line Rel Due

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5/12/2018

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4/90°080 \$	8/12/2018	Stock	068070	S	3		ε				168 Round 87-1908			41		
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12 \ 13.25 \$					325		75				6061-16. 625 Sheet: AMTERIAL: 6061-E1762 ALUMIUM SHEET AS ALUMIUM SHEET AS ARS 402A-2560/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive st OR ASTM 6209 receive st	Me061765 625		91		
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N / 18.88 S	8/12/2018	Stock	7280708	3	Þ		Þ		-	-	115W ""021.0 x 0.120"" Wall	-S-OPI F-TM	Section .	Þl	-	
#/ Zt'Z S	5/12/2018	Stock	9280708		211		100				yollA seamlese £12A gniduT bruoR leef&	-7-513A-TM 0S1.0W000.1	gan:	13		
H / S8.4 \$	8/12/2018	Stock	9280708		98						303 Round Bar 0.750 : MATERIAL: AISI 303 SS ROUND BAR AS PER NOTE:304/316 NOT NOTE:304/316 NOT	M30360,750		ZL		
N/E4.1 2	8102/21/8	Stock	\$28070S		6E		98				303 Round Bar 0.375"": MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM ASBS NOTE:304/316 NOT	eye arcorn 3 kary Test IInn		LL		
#/ t9:6 <b>2</b>	21/2018	Stock	EZ8020\$		S		S				PAGN ROUND BAR AIS AIS AIS AIS AIS AIS AIS AIS AIS AIS	003.FF-H0brpM		01		
H / EP-P S	8102/21/8	Stock	ZZ8020S		ZL						6140 : 00.nd ber 1.00 : 0454 4140H ROUND BER PER A 140H ROUND BATA A 1514 1400 R STH A 232-91 OR UNS# C 41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI STRENGTH=66KSI	000 FZ-H0PF9V		6		
Price/Uni	Receive Date		Container ON	Accounting oN dot	Received	Due	Order	Equipment ID	Project	For Part No	Description		Terms	lag ani- oli oli oli oli oli	l Teil <sub>∰</sub> qu2	on Od

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Plex 5/12/2018 7:17 AM Dart Dubois Pascal

CLIENT	Customer N	Date
DELIVERY - CLIENT	ACIER OUELLETTE INC.	935, boui, du Havre Salaberry de Valleyfield (Québec) 36S 5L1 Tél : 450-377-4348 MH: 514.336.4348 Ext : 800-667-4348
105/1011		UNELLE/15

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Shipped to

, Ontario,

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Instruction

DART AEROSPACE LTD

Billed to

2018/05/11 CLI0001056 2018/05/02 Delivery date Customer N° Date

CO00087281

Your order N°

39776

Josianne Bourdon

Processed by

**OUELLETTE VALLEYFIELD** Net 30 Days

Salesman

Carrier

**Credit Terme** 

F-M	<b>Delivery Route</b>	5		Page	a)		1				
4	Meish	į	77/11		PCS NB	18		Inter	nal	Use	Internal Use Only
oduct Description	Weight	(C)	E /0	CMD	EXP	B/0	NI	I	S	C	
5/8 6061-T651 RANDOM	288.64	32.00	32.00 PI2_\$CLB				200	-1			

Att : CHANTAL LAVOIE Tél.: 613-632-5200

ALU PLATE 5/8 6061-T651 RANDOM PAL-586061-V 4298  2 X 4' X 4' LINE 15 HEAT:17cn-e-1597 COUPE A LA SCIE
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3 ALU PLATE 4 1/2 6061-T651 RANDOM TRANSIT ST-JEROME LE 09/05 7485 PAL-4126061-V

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15,540

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OUT

10 X 12" X 20" LINE 16 AC15913-TH-09/05 HEAT: 12-5826

NIR: R-109516-6

ACIER OUELLETTE INC.

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1

2018/05/11 CLI0001056 2018/05/02 **Delivery date** Customer N°

Date

Your order N°

39776

Josianne Bourdon

Processed by

Shipped to

Ontario,

Salesman

Carrier

**OUELLETTE VALLEYFIELD** 

Net 30 Days

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	JCCION F-IV

HAWKESBURY, Ontario, K6A 1K7

1270, ABERDEEN ST.

DART AEROSPACE LTD

Billed to

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Dalling Barner			

Page Att: CHANTAL LAVOIE Tél.: 613-632-5200

**Credit Terme** 

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Broduct Description	Weight	i	2/1		PCS NB	88		Internal Use Only	nall	se 0	nly
	Meight	413	E/0	CMD	EXP	B/0	NI	н	I S C	U	TUO
4 ROUND ALU 10 6061-T6 RANDOM NS	282.75	3.00	3.00 PI_\$CLB				-				
RAL-10-V 9129							0			_	DAS
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1 X 36" LINE 17					3		)				68-65
AC15913-TH-09/05					2						
CHEAT: 4042702.											
5 TUBE MEC 8.750 OD X .058 NS	44.40	20.00	PI_\$PI			The state of the s	et et en				

1866

TME-0750058

AC15914-ATT-09/05 1 X 20' R/L LINE 18

HEAT: A718541

Fotal Weight (Lbs):

Conditions:

NIR: R-109516-6

2-8-0 8-8-0

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to 3 25% restocking charge.

Prepared By

Delivered By:

Time

Date

Customer's Signature

Total (\$CAD)

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935, Boul. du Hâvre—Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mt: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mt: 514-336-4246 Ext.: 866-456-4242

Shipped to

, Ontario,

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

DART AEROSPACE LTD

Billed to

CLI0001056 2018/05/02 Customer N° Date

Your order N° **Delivery date** 

2018/05/11

PO039776

Eric Kaehlert

Processed by

Salesman

**OUELLETTE VALLEYFIELD** 

**Credit Terme** Carrier

Net 30 Days

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Next Page...

NIR: R-109516-6

Instruction F-M	Deli	Delivery Route	5		Page	<b>a</b> )		1			
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Product Description		Weignt	QU)	м/о	CMD	EXP	B/0	NI V	I S	U	OUT
1 ALU SHEET .040 (18G) 5052-H32 (4 X 8) FEAL-040485052 3124 2 X 4' X 8' (PVC 1 SIDE) LINE#1 HEAT: GF81801W50083 AC15949-PR-Z018-05-07	7	36.03	64.00	PI2_\$CLB		Z		Con Son		7.00	Zana Sana Sana Sana Sana Sana Sana Sana
2 ALU SHEET .032 (20G) 5052-H32 NS FEAL-032 9714 2 X 4' X 8' (PVC 1 SIDE) LINE#2 HEAT: GFB1710W50138 AC15948-YR-2018-05-07	7	28.86	64.00	PI2_\$GLB		X		0 2000		7	

	ACIER OUE	935, Boul. du Hä	Salaberry de Va	Tél.: 450-377-4
13/2/10/15			7//77700	

LLETTE INC.

Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Shipped to

, Ontario,

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

DART AEROSPACE LTD

Billed to

CLI0001056 2018/05/02 Customer N° Date

2018/05/11 PO039776 Delivery date

Eric Kaehlert

Your order N° Processed by

OUELLETTE VALLEYFIELD

Credit Terme Carrier

Salesman

Net 30 Days

Att : CHANTAL LAVOIE Tél.: 613-632-5200

**Delivery Route** 

Instruction F-M

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Page	000
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DAS P-80

OUT

Instruction F-14	Delivery Route	7									Į
			******		PCS NB	8	I	ntern	al Us	Internal Use Only	
Product Description	Weight	QTY	M/0	CMD	EXP	B/0	NI	ı	S	C	
3 ROUND ALU 3 3/4 6061-T6 NS RAL-334 10134	155.88	12.00	PI_\$CLB		X /		-		>	000	C
1 X 12' HEAT: 201805092					121		4		Ī	7	25
4 ROUND ALU 3/4 6061-T6 *	20.92	40.00	PI_\$CLB				-				
RAL-34 <b>5157</b>					N		011		7	46	4
2 X 20'					×		7		2	7	121
LINE#4 HEAT: 68706					20,						
5 FLAT ALU 3/4 X 8 6061-T6 *	84.96	12.00	PI_\$CLB				-				
FAL-348 <b>2603</b>					_		7		MA	7 . 2018	00
1 X 12'					711		1				
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NIR: R-109516-6

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	ETTE INC.	0,	field (Québec)	Mtl: 514-336-4
	CIER OUELLETTE II	335, Boul. du Hâvre	aberry de Valleyf	rél.: 450-377-4248 Mtl: 514-336-4
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12/12/11			1	
		0	Service Control	

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 **J6S 5L1** 

CLI0001056 Customer N° Date

2018/05/02

2018/05/11

PO039776

Your order N° **Delivery date** 

Processed by

Shipped to

, Ontario,

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

DART AEROSPACE LTD

Billed to

Salesman Carrier

Eric Kaehlert

OUELLETTE VALLEYFIELD

Net 30 Days

	Att : CHANTAL LAVOIE	CHANTAL LAVOIF TÁL: 613-632-5200	Credit Terme	Net 30 Days	S/	
Instruction F-M	Delivery Route	2	Page	m		
6			PCS NB	I	Internal Use Only	Use (
Product Description	Weight	₩/0 0/M	CMD EXP B/O	NI	I S C	ပ

6 FLAT ALU 3/4 X 1 1/2 6061-T6 \*

FAL-34112

1 X 20'

HEAT: 892190

LINE#5

5779

RSS-716

HEAT: CH-6643

LINE#7

1 X 12' R/L

7 ROUND SS 7/16 304 (R)

LINE#6 HEAT: 68549

Woight	/11	M/11		PCS NB	18		Internal Use Only	nal	se O	nly
Weight			СМБ	EXP	B/0	IN	н	v	U	TUO
27.00	20.00 PI_\$CLB	CLB		× 8		8		4	2013	AD - S
6.13	12.00 PI_\$CLB	CLB		7 X 33		13.3		45-79- 105-79-		DAS 1200-88

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Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 935, boul. du navre Salaberry de Valleyfield (Québec) 16S 5L1

Shipped to

, Ontario,

HAWKESBURY, Ontario, K6A 1K7

1270, ABERDEEN ST.

Instruction F-M

DART AEROSPACE LTD

Billed to

CLI0001056 Customer N° Date

2018/05/11 2018/05/02

Delivery date

Eric Kaehlert PO039776

Your order N°

**OUELLETTE VALLEYFIELD** Net 30 Days

Processed by

Carrier

Salesman

**Credit Terme** Page

Att: CHANTAL LAVOIE Tél.: 613-632-5200

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DOUT

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PI\_\$CLB

12.00

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Internal Use Only

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6		Moint	à			PCS NB	B	
7	oanct Description	Weight	Ar)	M/0	CMD	EXP	B/0	IN
55 3	SS 3/8 304 (R)	4.51	12.00	PI \$CLB		3		

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1 X 12'	LINE#8	HEAT: 646

5768

RSS-38

ROUND SS 3/8 304 (R)

8

9 ROUND 4140 HEAT TREAT 1 (R) R4140-1H

S - 50

8107

HEAT: 177569 FINE#8 1 X 12'

NIR: R-109516-6

2018/05/02 **2018/05/11** 

Date Delivery date

CLI0001056

Customer N°

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			<b>J6S 5L1</b>	-4248 Ext.: 8	4746 Fxt . 8
	ACIER OUELLETTE INC.	935, Boul. du Hâvre	Salaberry de Valleyfield (Québec) 36S 5L1	Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248	Eav. 450-377-5606 MH 514-336-4246 Fyt . 866-456-4242
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		Your order N°	PO039776
Billed to	Shipped to	Processed by	Eric Kaehlert
DART AEROSPACE LTD		Salesman	
1270 , ABERDEEN ST. HAWKESBURY, Ontario. K6A 1K7	, Ontario,	Carrier	OUELLETTE VALLEYFIELD
	A# : CHANTAL   AVOIE Tél : 613-632-5200	Credit Terme	Net 30 Days
Instruction F-M	Delivery Route 5	Page	2
		PCS NB	Internal Use Only
Product Description	Weight Otv U/M	0,0	0 0

Instruction F-M C	Delivery Route	2		raye			n			
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11 ROUND SS 3/8 303 (R)	13.54	36.00	PI_\$CLB							
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935, Boul. du Hâvre Salaberry de Valleyfield (Québec) 16S 5L1 Tél.: 450-377-4248 Mt: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mt: 514-336-4246 Ext.: 866-456-4242

CLI0001056 Customer N°

2018/05/02

2018/05/11

Delivery date

Date

		Your order N°	PO039776
Billed to	Shipped to	Processed by	Eric Kaehlert
DART AEROSPACE LTD		Salesman	
1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	, Ontario,	Carrier	OUELLETTE VALLEYFIELD
	Att : CHANTAL LAVOIE Tél.: 613-632-5200	Credit Terme	Net 30 Days
M-A cotton	Delivery Bourte 5	Page	9

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13 TUBE MEC 1.000 OD X .120 (R)

HEAT: 572C

LINE#12

TME-1000120

5 X 20' R/L

LINE#13 HEAT: 8721446

12 ROUND SS 3/4 303 (R)

RSS-34303

3 X 12' R/L

Instruction F-M

NIR: R-109516-6

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DELIVEN - CEI	ACIER OUELLETTE INC.	935, Boul. du Hâvre	Salaberry de Valleyfield (Québec) 16S 5L1	Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
			1100	

Shipped to

, Ontario,

Delivery date Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

CLI0001056 2018/05/02 tomer N°

2018/05/11

P0039776

Your order N°

Eric Kaehlert

Processed by

OUELLETTE VALLEYFIELD Net 30 Days

Salesman Carrier **Credit Terme** 

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HAWKESBURY, Ontario, K6A 1K7

DART AEROSPACE LTD 1270, ABERDEEN ST.

Billed to

14 PLATE 4140 HEAT TREAT 1/2 NS

P4140-12H

1 X 10" X 48"

LINE#14

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Att : CHANTAL LAVOIE Tél.: 613-632-5200

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Conditions:

677.30 Total Weight (Lbs):

NIR: R-109516-6

"Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by

Delivered By	
Verified By:	
repared By:	

25% restocking charge.

Time	
Delivered By:	

		Customer's Signature
2		
- ()		

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Date

Total (\$CAD)

Ship-To Contact:

Revision Date:

Purchase Order

Revision:

Due Date:

PO Date:

PO No:

### PURCHASE ORDER PO039776

9381078

Lavoie, ChantalPhone:

81/7/8

5/2/18

PO039776

Plex 5/3/18 11:26 AM dart.lavoie.chantal

Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada



ACI001-VC

Fax: 450 377 5696

J6S 5L1 Canada

OC Valleyfield

Supplier:

Phone: 800 667 4248

935 Boul. Du Havre

Acier Ouellette Inc.

Tel (613) 632-5200

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Extended	JinU		Received	Tabro	Due	şu	1931	Supplier		Pul7
97ice \$149.8	\$2.341875/sf	salance le 94 sf	Is 0	Quantity 12 48	<b>Date</b> 5/7/18	Status bermi	Description 5052-H32 .040 Sheet : MATERIAL: 5052-H32	oN heq	7189 M5052H32S.040	ltem
Éir	111-11		h?				ALUMINUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A-250/8 OR B209 receive sf		/	
\$125.83	fa\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	12 40	Oet )	12 48	81/2/9	Firmed	5052-H32 .032 Sheet : MATERIAL: 5052-H32 - ALUMIUUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS-QQ-A-250/8 OR R209 R209 receive st		SEO.2S.EHSZOOBN	7
8. <b>2</b> E9 <b>\$</b>	#\&&&&\.S&\$	12 स	Q 7 1	12 स	81/1/9		7.50% Bath Bath Bath Bath Bath Bath Bath Bath		M6061T6R3.750	S Solvential

Price \$62.0	Price (CAD)	40 fl	Quantity B	Quantity	<b>6160</b> 81/7/2	Status Firmed	Description 6061-T6 Round Bar .750" : MATERIAL: 6061-	Part No	057.09A71600AM	tem.
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	8107 1 1 1	MN.	n.tl				: MATERIAL: 6061- T6/T651/T6510/T6511/T62 T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A117/4128/4115/4116 OR QQ-A-200/8 OR AMS-4160 A-200/8 OR AMS 4160 A-200/8 OR AMS 4160 A-200/8 OR AMS 4160			
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.08\$	₩/00'₽\$	₩ 02	(ja)0	n os	81/1/9	Pem1i3	03.1 X 037, 188 3T-1508		te 2 pcs of 6 ft length	e Item No 6
) oo t				11.07	01442	nau	: MATERIAL: 6061- T6/T651/T6510/T6511/T62 T6/T6510/T6510/T6511/T62 ACA-A-225/8 OR AMS-QQ-AAS-S/8 OR AMS T0/S1/S1/S1/S1/S1/S1/S1/S1/S1/S1/S1/S1/S1/		000:10/001/0001	
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	#\\$0.81\$	म दा	(J)	ग दा	81/7/8	Pirmed	304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER SSTM A276 NOTE: AISI		876.0AP0.375	8
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·£ <b>2</b> \$	11/64.4\$	n St	(1)	म टा	81/ <i>L</i> /S	Firmed	#140 round bar 1.00 : AISI 4140H ROUND BAR PER AISI41400R ASTM A304-02/-A-434- AS9-03/-A322-91 OR UVS#-G41400 MINIMUM STRENGTH=100 KSI STRENGTH=100 KSI STRENGTH=66KSI STRENGTH=66KSI		000.1Я-H04140₩	6

Extended	W/L9:6\$	e u	1 1/2	Quantity 6 ft	5/7/18		Description 4140 Round Bar 1,500 5: AISI 4140H ROUND BAR PER AISI41400R ASTM A304-02/-A-434- A29-03/-B322-91 OR ULTIMATE TEUSILE STRENGTH=100 KSI STRENGTH=100 KSI			<b>Part</b> 002.1Я-Н0414М	10 Ifew
o.	100 CP 161,1	<b>1)</b> 9	5	<b>u</b> 9	81/ <i>L</i> /S		: AISI 4140H ROUND BAR PER AISI41400R ASTM A304-02/-A-434- BC/-A193-03-GRADE B7/- DNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI			003.1A-H0414M	O1
2.11-	E.										
			U				TENSILE STRENGTH=66KSI NINIMUM YIELD				
<b>4.13</b>	14/E4.1 <b>\$</b>	n 3E	BQ.	36 A	81/1/9	Pirmed	303 Round Bar 0.375" 304 Round Bar 0.375" ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT NOTE:304/316 NOT		1	-M303R0.375	l l
9°₽∠ <b>\\$</b>	¥/58.4\$	36 ft	J2 40	H 9E	81/2/9	Pirmed	receive ff 303 Round Bar 0.750 303 Round Bar 0.750 AOTE:304/316 NOT ACCEPTABLE NOTE:304/316 NOT PECCEPTABLE			M303R0.750	12
	#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	100 f	(A) (A)	# 001	81/2/9	Firmed	States Alloy as allows Alloy as allows Steamless Alloy allows 1 and 1 allows 1.0 x 0.1 co.	; '	1	-T-£13A-TM 0S1.0W000.1	51
7Z:9EZ\$	#\r8.82 <b>\$</b>	U Þ	John H	IJ Þ	81/7/8	bəm1i3	AISI 4140 Steel Sheet/Plate		/	-2-0414-TM 000.01X003.0	Þl
<u>/ (5.9651,1\$</u>	112/FE308.3E\$	ls SE	FE (et)	le SE	81/01/18	Pirmed	5061-T6 .625 Sheet METERIAL: 6061-T6/T62 A LUMINUM SHEET AS A MS-CQ-A-250/11 OR MMS-QQ-A-250/11 OR	d / :		529.23T1303M	12
7							AMS 4025 OR AMS 4027 PR ASTM B209 Peceive sf			97 97 7 0	
▶L.039,3\$	#\38100.686\$	N ZI	The	# 799.91	81/7/3	Firmed	X 006.14 leet 4.500 X		000.21	2 pcs of 4 ft x 4ft M6061T6S4.500X	91 anon man ar
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L'Y	4140 - 4441						AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR			
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6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mas.art Fros r r YAM	30 ft	400	20 ti	81/01/8	Firmed :	Sta Seamless Alloy Steel Round Tubing Stables x 0.058" Wall		-T-£13A-TM 830.0W037.0	18
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				(MOO	) evilac	I GNOC	VI 33310 103314 0033140	30 (070) ISS		
34.869,013	Grand Total:									

### Order Notes

A048 counterfeit parts avoidance, detection, mitigation and disposition program A043 retention of quality documents A042 dart notification by supplier A041 quality management system A026 certification of material conformance A017 raw material identification (as applicable) A016 personnel qualification A012 chemical and physical test report Another To Inght of entry Procurement Quality Clauses

A049 supplier awareness

www.dartaerospace.com for further explanation. Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit

Plex 5/3/18 11:26 AM dart.lavoie.chantal

### MATERIAL RECEIPT INSPECTION FORM

						10	ARDNESS / DUROMETER READIN
						-	SIZE OF TEST SAMPLE
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							DOES THIS REQUIRE AN
					N	) <b>人</b>	ENGINEERING SIGN OFF
					0		DOES THIS MATERIAL REQUIRE
					N	W	CORRECT M# ON THE MATERIAL
		145	711/14 -	4-10	FAI N		ORRECT MATERIAL IDENTFICATION
		111.02	3100	THE	TI N	14	PHOTO REQUIRED  CORRECT REF # TO LINK CERT
	-	,			/ N	1	CORRECT THICKNESS
		508/1.	4513	MIS	N	X	CORRECT MATERIAL PER M-DRAWING
					N		CORRECT GRAIN DIRECTION
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					N	(3)	CORRECT FINISH
					N	人	SURFACE DAMAGE
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	21	COWWEN.			eck	40)	DESCRIPTION
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:3TAQ	8-CKAY 1 2 2018	: DATE:
SIGNED OFF BY:		INSPECTED BY:
ENGINEERING SIGNOFF (if required)		QC 18 INSPECTION

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

D PART NUMBER: SPECIFICATION: PURCHASE MATERIAL: SPECIFICATION CONTROL DRAWING EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120 MT-A513-T-[D.DDD]W[T.TTT] WHERE T.TTT IS WALL THICKNESS IN INCHES WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES ASTM A513 TYPE 5 ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM) TYPE 5 ADDED, TEMPLATE UPDATED NEW RELEASE N ASTM AS13 TYPE 5 (1020/1028) ALLOY STEEL ROUND TUBING (DOM) 17-655 17-790 ECN# MT-A513-T 17.09.06 17.12.13 DATE BY APPROVED VM VM ML C 0

N+1651

₽00.0

Page 01 of 01

CERTIFICATE OF TEST

810S-YAM-9 Certification Date

TIIITET

Invoice Number

**CUSTOMER ORDER NUMBER** 

**VCIPBIT** 

**CUSTOMER PART NUMBER** 

LT9TOT

SOLD TO:

DIVISION SALABERRY-DE-VALLEYFIELI ACIER OUELLETTE INC :OT 91H2

935, BOUL DU HAVRE

SALABERRY-DE- VALLEYFIELD QC J6S 5L1SALABERRY-DE- VALLEYFIE 935, BOUL DU HAVRE DIVISION SALABERRY-DE-VALLEYD

HEAT: A718541 Describtion: 4020 DOM SEY

M 2 9T ELZA MTZA S<del>becricerrou</del>a

II 60EA MTZA

<del>50/54. E/I</del> A513/5

ILEW: TOTE47

CHEMICAL ANALYSIS

900.0

TO:0

ACIER OUELLETTE INC.

97.0

LI 02.0

D.024 T00.0

RCPT: R431089

MECHANICAL PROPERTIES

20.0

0.9I IN 05 IN IN AREA

COUNTRY OF ORIGIN : USA

60.0

0.00886 ISd ULT TEN

0.00268 ISd XLD STR DESCRIPTION

CKUSH: Y FLARE: Y FLATTEN: Y

NO MELD REPAIR PERFORMED ON MATERIAL MATERIAL IS FREE FROM MERCURY CONTAMINATION

drawn in the usa reduction ratio 10-1 COMMENTS

TERRY GALBRAITH

our possession. Material did not come in contact with mercury while in

96

HARDNESS

80.0

BHN

results remain on file subject to examination. for completeness and specification requirements of the information on the certificate. All test The above data were transcribed from the manufacturer's Certificate of Test after verification

described herein, including any specification forming a part of the description. We hereby certify that the material covered by this report will meet the applicable requirements

may be punishable as a felony under federal statutes. The willful recording of false, fictitious, or fraudulent statements in connection with test results

### MATERIAL RECEIPT INSPECTION FORM

			ne Quality Office	ocated in ti	ST915		
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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SIGNED OLL BA:

:BTAQ

SPECIFICATION CONTROL DRAWING

SPECIFICATION: PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

PART NUMBER:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-220/8 OR AMS-QQ-A-220/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221 M6061T6RID.DDD

EG. 5/8" ROUND BAR = M6061T6R0.625 WHERE "D.DDD" = DIAMETER IN INCHES

 $\cap$ 

CHECKED MFG. APPR. DESIGN B REFORMAT DWG, ADD B211& B221 SPEC (ZN D8-1),
A NEW ISSUE 09.07.13 DESCRIPTION DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
M6061T6R
SHEE 6061-T6 ROUND BAR COPYRIGHT @ 2001 BY DART AEROSPACE LYD CP CP SQ SQ 09 07 13 REV. B SHEET 1 OF 1 SCALE NTS DATE

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HYDRO

Hydro Extrusion USA, LLC 53 POTTSVILLE STREET

17929-0187 CRESSONA, PA

Invoice To Customer

**Certified Test Report** 

Sales Order Number

1101374515

Line No. 5400397994-C1A-0010 Customer P/O 24-APR-18 HYDRO2861554 Cert Number Cert Creation Date

Page

1 of 3

N 5765/

30-APR-18 Cert Print Date Page

4434 CustomerPart No. 4994493 Delivery Id B/L Quantity Shipped 921960 ALRD00259 Б 24-APR-18 Date Shipped Item No. Rev Item No. G03976730 tem Description
Extruded Regular Rod
10.000 DLA
SECT 542329
144.000 IN LN
FIN M-MILL
WAT 22753 F 1 10
606 MT6
Warking CONTINUOUS: ASTMB221 REV 14 ASMESBZZI REV 09 UNS#A96061 REV AMS-QQ-A-200/8 REV A

Ship To Customer

1 1

Applicable Specifications, Revisions and Exceptions

Straightness will be 0.050 inch/foot maximum

esidual cast structure may remain in finished product because of low reduction ratio.

this certified inspection report. Remainder is Aluminum, COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on

Hydro Extrusion USA, LLC hereby certifies that the metal shipped under this report has been tested in accordance with the identified ASTM and/or ASME specifications and the results of the chemical analysis and mechanical properties tests are within the acceptable ranges of these specifications. Any product warranty is governed by the Extrusion North America Standard Terms and Conditions of Sale posted at www.hydroextrusions.com/termsconditions

Quantities per Lot / Packages

Lot Number

Quantity

MOU

Weight

PCS PCS

2223 2223

2217 2217 Net

23135192 23135192

Signature And Title

Quality Manager Darrell Wenrich

24-APR-18

Composition Limits

G12-PKG3204968 G12-PKG3204958 Package Number



Hydro Extrusion USA, LLC 53 POTTSVILLE STREET

CRESSONA, PA 17929-0187

### Certified Test Rep

Sales Order Number 1101374515

	Line 79.	4	American designates de la companyamente del la companyamente de la companyamente de la companyamente del la companyamente de  companyamente de la companyamente de la companyamente del companyamente de la co	rest Keport
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	24-APR-18	Cert Creation Date	HYDRO2861554	Cert Number
The state of the s	30-APR-18	Cert Print Date	Page 2 of 3	Page

Мах 0.25

Mechanical Property - Test Limits

Heat / Cas 4042702 Heat / Cast

0.77 8

0.35 ם

Fe

0.73

0.29

0.93

0.04 20

0.02 0.03 3

Others Each Others Total

Cit 0.36 Cu

0.12 Mn 0.15

MB

0.93 312

0.14 Q

0.05

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7.

Others Each Others Total

WAY VIEW MANAGEMENT TO A STATE OF THE STATE	
KSI	(2)
T	T-SAL

Cert Notes

Products manufactured with a T6S11 temper also meet T6 temper requirements.

Vield strength has been determined by the 0.2% offset method

All mill finish alloys produced at Sapa Extrusions Inc comply with Directive 2011/65/EU (RoHS 2) with the exception of 6262 alloy In accordance with EN 10204 Inspection Cordicate Type 3.1

For U.S. Government sales: Items supplied are compliant with the Buy American Act, FAR 52.225-1, and DFARS 252.225-7001

Melted and manufactured in the USA.

Mercury is apt a normal contaminant in aluminum alloys and we do not knowingly use it in the manufacture of our goods



Hydro Extrusion USA, LLC 53 POTTSVILLE STREET

CRESSONA, PA 17929-0187

### **Certified Test Report**

Sales Order Number 1101374515

	Line No. Customer P/O Cert Creation Date Cert Print	HYDRO2861554 Page	Page Page
30_APP_19	Cert Print Date	Page	Page
90	Date	3 of 3	

### MATERIAL RECEIPT INSPECTION FORM

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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SIGNED OFF BY:

DATE: 9-89 MAY 12 2018

INSPECTED BY: DAS



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PURCHASE MATERIAL: 6061-T6/T62/T651 ALLIMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS-4025 OR 4027 PART NUMBER: M6061T6S XXX X W.WWW WHERE ".XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE) QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR 4027 OR ASTM B209

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EG. 0.063" THICK SHEET = M6061T6S,063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S,500X3,500

PREFERRED SIZE:

.XXX BY 4FT BY 8FT FOR SHEET

APPROVED				
DESIGN DRAWN CHECKED MFG. APPR APPROVED DE APPR. DATE	REV.	>	8	C
DS NAL US		NEW ISSUE	REFORMAT DWG, ADD 8209 SPEC (ZN D8-1), REF PAR 08-020A	ADD PLATE AND T651 SPEC
DART AEROSPACE ITD HAWKESBURY, ONTARIO, CANADA REV. / M6061T6S TITLE SCA 6061-T6 SHEET/PLATE SPEC NT COMPRISING 2001 SH DART AEROSPACE ITD	DESCRIPTION		B209 SPEC (ZN D8-1),	SPEC
CELI	ВУ	쮸	CP	NL N
REV. C SHEET 1 OF 1 SCALE EC NTS	DATE	01.06.08	09.07.13	17.12.13

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### INSPECTION CERTIFICATE Nº 17.149847



### EN 10504 - 3'1

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On behalf:

KUNZ J.S.Co.

### MATERIAL RECEIPT INSPECTION FORM

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			<del>                                     </del>			-	YPE OF MATERIAL SIZE OF TEST SAMPLE
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	SS CHECK						CUT SAMPLE PIECE
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					N	1	DOES THIS MATERIAL REQUIRE  ENGINEERING SIGN OFF
					N	(1)	CORRECT M# ON THE MATERIAL
			. 1		N	12	ORRECT MATERIAL IDENTFICATION
	40	N. 6-15	DLI III	Kroff	N	×	CORRECT REF # TO LINK CERT
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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8-65 MAY 1 2 2018



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PURCHASE MATERIAL: 6061-TEATSZAG51 ALUMINUM SHEET OR PLATE PART NUMBER: SPECIFICATION: QG-A-250/11 QR AMS-QQ-A-250/11 OR AMS -1025 OR 4027 QR ASTM B209

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M6061T6S XXX X W.WWW

WHERE ".XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

XXX BY 4FT BY 8FT FOR SHEET EG. 0.083" THICK SHEET = M6061T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

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PREFERRED SIZE:

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APPROVED DESIGN
DRAWN
CHECKED
MFG, APPR
APPROVED
DE APPR
DATE
17 B REFORMAT DWG, ADD 8209 SPEC (ZN D8-1). ADD PLATE AND 1651 SPEC 17.12.13 NEW ISSUE DS DARI AEROCO. CANADA

ML HAWKESBURY, ONTARIO, CANADA

NO DRAWING NO. REV. C

M6061T6S

SHEET 10F1

SCALE

CP 47 6061-T6 SHEET/PLATE SPEC NTS

COPYRIGHT 20201 BY CART ARROSPACE CONTROL

COPYRIGHT 20201 BY CART ARROSPACE CONTROL

SCALE

CP 47 6061-T6 SHEET/PLATE SPEC NTS CP 짂 M DATE 09 07.13 17.12 13 01 06.08

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### MILL TEST / QUALITY CONTROL CERTIFICATE



15911909

868001

NORTHEAST LIGHT ALLOY CO. LTD.

FAX: 66-451-66608342

AND INVOICE: 17/18-064

PINGEANG DISTRICT
HARBIN
REF: M17/084
No.01 Invoice: 17/0E-064

TEST DATE: 2017-06-30

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IVOILA	LOT NO.	else(ww/inch)	W.W.	G.W.	PCS	SLTd	Order No.	HEYLNO

788 H

本門學學歷 11 S4318 117CN-B-1385 1591.1909 2088 (0.374/X"2,03X"376,0) 1,00893 0 17 9, 63x1636, 7x3670, 3 E124318 114CM-E-1284 A H 1\$9L1909 T00863 7235 2002 (19.441X-8.00X-876.0) OL 5'1 9 1 9. 53x1536, 7x3670, 3 1124318 11CN-E-1211 6814 896\$ (0.375"X6.08X"875.0) 79800.T. 18971503 E 21 6'1 8 .I 9, 53x1536, 7x3670, 3 R 154318 17CN-B-1516 1991,1909 3.05 2.05 T00862 66ZÞ (.9' pp. X.9'09X.9ZE'0) . [ 13 96 T 9, 63x1536, 7x3670, 3 KISTAIR INCH-E-1212 4841 2°08 159L1909 T00861 4354 ("3,444,5") i 13 96 'I 9, 53x1536, 7x3670, 3 ISTER LISCH-E-TELT 4994 L00801 £60T1505 ("3.441X"8.03X"8TE.0) 4343 Ī 13 20 7 18 'I 9. 53x1536. 7x3670, 3 K124318 11CN-E-1125 IS911909 3305 3110 (0'375"X48,5"X88.6") E61101 Į 18 861 1 86\$ 'I 9, 53x1231, 9x2451, 1 K124318 11CM-E-1693 IC9\_L1909 ('3,86X'3,84X"8TE.0) 761101 OZEE 3788 L LZ 844'1 9, 63x1231, 9x2461, 1 1, 718 B124502 114CM-E-1200 15911909 1299 2332 (0.78°X18.67.0) 78110T Ţ 10 F9 '8 2 45 18: 06x1281, 9x3670, 3 11CM-E-1903 K124295 1991:1909 T01180 2129 SYS (18 44) X.8 84X.009'0) ť. SI 3"2 ts, 7x1281, 9x3670, 3 1691-11-NOL11 5624513 15911909 4284 6814 ("8.441X"8.84X"008.0) COLLOT ĺ 15 68 T 6'1 12, 7x1231, 9x8670, 3 K 124532 11CM-E-1138 1-621001/1 189T1303 3386 8818 (0.375°XA8.5°X14,6°) 1 15 OCTOOT/00100T 989 T 1' 44R 9, 53x1281, 9x3670, 3 16154173 17CN-15-1664 8058 283 (10"X48.5"X144.8") \$1600J. 169,1,1909 I b 1,374 1,284 SP 4x1531 8x8040 3 E124113 111CM-E-1663 159,1,1909 Stac \$16001 3748 (1.0°X48.6°X144.6°) I \$ 1. 27 TO T 36. 4x1231, 9x3670, 3 R154173 17CN-8-1662 159L1909 3777 8198 (1.0\*X48.6\*X144.6.1) 1.000 L ī S. 989 T 969 'I 26. 4x1231. 9x3070. 3 ICIQUILLA ILLCIA-E-1001 2113 ₹16001 15911909 1192 (1.0.X48.5.X14.5) I ç 1.684 769 T E. Ax1281, 9x3670, 3 E 124113 111CM-E-1081 £1600J 6061T651 9698 3486 ("& AATX"8,84X"0,1] ς I 949 1 J. 586 26. 4x1231. 9x3670, 3 R134173 17CN-B-1672 3708 9210 £16001 159L1909 (1,0"X48,8"X"0,1) ĩ 5 T' 885 1, 592 26. 4x1231, 9x3670, 3 KISTILS ILICH-E-1018 **COCLLEST** 4763 (0.75°X48,6°X144,6°) 80600L 1992 1 6 2, 246 2, 156 19, 05x1231, 9x3670, 3 18154173 117CN-E-1617 4457 4228 (0.75"X48,5"X144.6") X0600L 15911909 Ĺ 8 S' 008 816 'L 6 '0496x6 '1821 x90 '61 M154173 17CN-E-1686 19911909 3380 1916 L06001 (0.75 X48,5 X144,5 V) 1 9 1' 25d F' 434 19, 06x1231, 9x9670, 3 R124173 17CN-E-1683 IS9L1909 906001 1544 4228 ("3.441X" 8.84X"87,0) I 8 2, 008 816'I 19, 06x1231, 9x3670, 8 K124113 11CN-E-1985 1991.1909 1849 90600L (0,75°X48,6°X144,6°) 2828 ſ 01 2 480 2, 396 19, 06x1231, 9x3670, 3 11CN-E-1984 K124113 8861 1\$9L1909 4740 ("2.44FX"8,84X"87,0) \$0600L Ţ 6 18 8 5' 12 19.06x1231, 9x3670, 3 Kizelija ilgafilat 00011001 £089 9295 668001 ("8,88X"8,84X"008.0) I 24 7 834 5 224 12, 7x1231, 9x2451, 1

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	1610T	at his	at U	AV V/		25 11	, A,G, U	A1 2/		01-0	PROTUL
198	81.0	01 02	0' 18	90 02	<0.20 <0.20	0' 22	0, 37	40, 15 (0, 15	7' 00 0' 80	0, 19 0, 23	76010T, 18100:
168	0.15	01.05	21.0		(0. 20	0.63	6 Z G		T 00	0, 22	0013S
188	0.15	(0, 10	91:0	<0.05			I≱ 'O				in the same of the
le8	81.0	01 02	91.0	40, 05 40, 05	(0, 20	0' EE	68 '0	<0° 16	46 0	0.20	1-98100
158	31.0	<0,10	91 0		<0, 20	89 0	0 40		1, 02		·1-011000
188	31.0	<0' TO	0, 16	<0.05 <0.05		0, 58		\$1 '0>		0, 21	1-171001
विध	91.0	ζ0'10	91.0	\$0.05	02,03	69.0	76.0	91 0>	IO'T	0, 20	0+100
Isa Isa		(0, 10	91 '0	90.'0>	03 0>	69 0	26 0	\$T.0>	1,01	0.20	£996
ISB	81.0	<0' 10 ·	41.0	(0.05	08-0>	78.0	78:0	91 02	96 '0	0, 24	00883
ISB	31.0	<0.10	41.0	\$0.0	08.02	89 0	86 '0	-91 '0>	10/1	0.22	\$8800 \$8800
Bal	81.0	<0° 10	71.0	90 '0>	60, 80	75.0	78,0	-	96 '0	P3 '0	98800
isg.	31.0	CO 10	41 0	90 '0>	ζ0, 20 ζη ού	69.0	0,38		1, 02	12.0	88800
lag.	81.0	(0' 10	41 '0	90 '0>	<0, 20	69.0	98 '0		1' 02 66'0	0, 20	68800
ISB	61.0	<0' 10	41 0		<0, 80 <0, 20	99 0	98 °C		10 1	0, 23	line was a second
	61.0		0'14	design of the same of	(0, 20	0.63	98 (0		1, 03	12 O	
lsa lsa	91.0	<0, 10	21 '0		(0, 20	79,0	75.00		96 '0	0.84	
ls8	81.0	01.0>	21 0	7,77	02.0>	99 '0	78 C		\$0°t	0. 22	1,100
Isa	0.15	(0, 10,	71,0		ζ0, 20	88.0	98 (		10 1	0. 32	
Bal	91.04	-01°0>	71.0		<0°30	0, 63	98 (		66 '0	0.20	
(B8)	ero.	01, 05			(0, 30	39,0	68 (	-	7° 0€	02,0	
Isâ	11.01.01	01 35	H		(0, 20	99 '0			FO 1	07.70	

RISTATIS ILLCH-E-LIST 3686 9972 (5'0,X60'8,X144'6") 100193 15911909 7 2/19 T 1. 572 50, 8x1536, 7x5670, 3 B124318 11CM-E-1138 £61001 159L1909 1998 (2.0"X60.5"X144,5") 3444 1 2. 299 T 799 T 80, 8x1536, 7x3670, 9 K124318 | 13CN-E-1120 LLDE 2978 16100,L 15911909 (2.01X60,67X144,8") ĩ 2 899 T 899 1 50. 8x1636, 7x8670, 3 K124318 11/CN-E-1082 19911909 1829 1919 ("3,36X"8,84X"0,1) 101241 l H 2, 398 2, 338 26. 4x1231, 9x2451, 1 K124318 11/CN-E-1222 1S9L1909 5884 ("3.441X"8.84X"0,1) 101536 **9612** Ţ þ 1.358 I. 268 25, 4x1231, 9x8670, 3 R 243 8 110N-E-1824 3888 3848 (1.0°X48,5"X144.5") 101536 159,1,1909 1 S 1.672 7:285 25, 4x1231, 9x3670, 3 R154318 11/CN-E-1600 (0.625"X48,6"X144,5") [\$9T[505 7884 5646 20110L 1 9 T'S T' 58 16, 88x1231, 9x3670, 3 R124318 11CN-E-1200 3276 8408 (0.625°X48.6°X144.6°) 101500 [69T1663] L 988 T 282 1 8 0788 9 1891 98 810 8 K124318 11/CM-E-1281 199.L1909 3289 1608 (0.626"X48.6"X144.5") TOIZOS Ī L 1. 492 1,402 8.0738x8.1881x88.8 K124318 11CM-B-1208 1909 3298 3100 (0.626"X48,6"X144,6") T01205 1 L 967 1 907 I 46. 88x1231, 9x3670, 3 15154318 117CN-E-1519 3220 358E (18. PATX'8.03X'8TE,0) 199L1909 T00864 Ĭ. 01 69"1 9. 63x1636, 7x3670, 3 KISTS ILCHERISTS 1591,1909 3098 3888 (0,375 X60,5"X144.6") 100864 Ī 1.0 8.63×1536.7x3870.8

nos

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lsä	91.0	(0, 10	QT 'Q	<0° 08	<0.20	89 '0	O 43	₹0,16	66 0	0, 22	£61001
lea	B1.0	. OT '0≥	0, 16	<0.05	(0, 20	9, 62	8£-0	40, 15	I OI	0.20	261001
lati	81.0	<0.10	91 '0	90 0>	<0, 20	19 '0	0.36	\$1 'Q>	£6 0	0. 20	16100T
ISS	91'0	01.0>	Lt 'Ö	<0,05	02.0>	88.0	38.0	9T '0>	66 '0	0.20	1.01241
Bal	81.0	<0, 10	71.0	50.05	<0, 20	69.'0	98.0	\$1 '0>	1.03	0, 21	T01236
lsa	3F,0	(0° TO	41.0	CO. OB.	<0.20	39.0	78.0	91 0>	F0 'T	. ZZ *0	101206
led .	3F.0	01,0>	0, 17	90 '00	<0.20	0,68	. 38 .0	91.0>	10.1	0, 22	101205
ls8	91.0	<0, 10	91.0	<0, 05	<0, 20	69.0	68 '0	91 '0>	1, 03	0. 20	₽98001
ls8	61.0	<0, 10	71,0	<0.05	<0, 20	69 '0	0, 43	91.'0>	10.01	0, 23	100863
IBB :	81.0	<0.10	91.0	<0.05	<0.20	Ğ, 62	68.0	<0' 12	1'01	0, 20	Z9800T
188	31.0	<0.10	ĞI ,0	<0' 02	<0,20	89 '0	0° 43	<0' IR	66 '0	0, 22	19800T
Bal	31.0	(0. 10	0, 16	<0.05	<0, 20	79 °0	66 '0	<0' IE	26 '0	0.21	RELIEUT
BBI	SI.0	<0.10	91 0	30,0>	<0.20 co	09.0	48,0	31,0>	10.1	0. 20	Zeliol
ISE	91.0	<0.10	0.16	20.0>	<0.80	P9 0	68.0	40, 16	46.0	18.0	78110T
lā8	91.0	<0.10	0.16	90,0>	<0.20	₹9.0	0, 38	G1,0>	26 0	12.0	TOTIES
leð	91'0	<0.10	0.16	90 '0>	<0.20	79°0	0, ⊈3	<0'12	1' 0P	13.0	6/1101
[88]	81.0	<0. 10	11.0	<0.05	<0° 20	69 '0	0 €0	(0) 10	70 T	0,21	1-621001
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lad	31.0	<0,10	0.16	<0° 02	<0.20	99 0	0, 46	91 '0>	46 0	61 0	100136
lat	31.0	<0,10	71.0	<0,05	<0.20	89 '0	0 38	40.15	10 T	0, 22	916001
日記	91.0	40,10	4170	₹Q: Q <u>\$</u>	CO. 20	99.0	98 0	<0' TR	7.02	0.22	\$1600J.
IBB	B1.0	01'0>	L1 '0	<0° 08	<0.20	99.0	18.0	₫T '6'>	1 02	0.22	100013
Bal	91.0	<0'10	91 0	<0.05	<0,20	69'0	0, 38	97 02	1.08	0.21	80600T

1,00013	43.2	多,4 是 1	一点""" 15,70
T00908	9'77	等。0.0b	14.20
, 10600J.	44.2	6'66	0 1 1 1
10090G	7,44.	9.04	00°FT 77 71
T00905	44.2	40.2	04,40
66800T	42.0	8.04	1,6, 60
86800T	0.34	8.0Þ	16, 00
100894	44,2	2,96	06 TI
T00892	43.8	39.5	13, 20
T00891	8.64	7,98	06 91
06800T	8.44	9'66	10, 10
08800T	क क्ष	<b>8</b> '66	12, 40
888001	43.5	8,88	17, 00
100886	0'97	6'07	12, 70
188001	43.9	7.8g	08-91
T00883	J'pp	40.2	10 00
8996T	עלי.ו	<i>L</i> '88	17,80
. 100140	6'87	26.4	18, 00
L-100141-1	8,64	9.68	06.71
I-07100L	र्षय इ	₽:8E	18, 00
1-66100T	8,54	38.6	17, 10
T00182	0'9b	8'62	16, 20
18100T	1.8b	8.68	16, 70
280TOL'1	45.8	1.78	01.81
LOT NO.			(%)erutesti refis nellisgnois egalneora (

'VI 291'0+/0"	int 781.0+10.	NI ORD DAYO.	310007
'ul 781,0+\0-	'4  28  '0+/0"	.01+0.039 11.	▶1900T
.nl 581,0+/0-	'ul /3t,0+/0-	.nl e60,0+\0-	£1600T -
.nl 781.0+/0- 海 混 出	7919:	4UJ 1:60:0+/0°	80600T
.nl 781.0+\0-\		'ul 1:50.0+/0-	70900T
111 101 104/05	14 7 A 11 781 0+10-	'4) LEO'Q+/Q-	90600J.
'U  (49) 'O+/Q- FILE (19)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	'ul 1:60:0+/0-	30900T
'UI 491'0+/01	## W 191.0+/0-	-0/+0-023 In.	- 66800T
	-v-8 'u  Z9  '0+/0-	-0/+0.028.ln	868007
	.nl 781.0+/0-	-0/+0.023 In.	16800T
The same of the sa	'4  29  '0+/0-	'Ú  1:50.0±/0-	T00892
.nl 781,0+\0-	'U  Z9  '0+/0-	.nl &\$0,0+\0.	16800T
.nl 731,0+\0-	.ni 781.0+\0-	'UI \$20'0+/D-	068007
,nl 781,0+\0-	'U 181,0+\0-	.ml.620,0+/0-	98800T
,nl 781,0+/0-	'NI Tat O4/0-	.nl 710.0+/0-	88800T
.nl Vat. 0+\0.		'U  990'0+/0-	100888
,ri 781,0+\0.	UJ 491 0+/0-	-0/+0.039 in.	100884
'VI 781',0+/0-	.nl 781.0+\0-		C8800T
'u  /\$! `0+/0-	, nl 781-0+10.	The second secon	8096J
'ul 291'0+/0-	ni 781.0+\0-	:u  030:0+/0-	100140
"U  \2\$1.0#/0-	.nl T81.0+10-	-0/+0,020 In.	I-14100T.
'VI 291'0+/0"	n 781.0+\0.	.nl 020.0+/0.	
,nl 78r.0+/0-	'U 731.0+10-	-0/+0-020 ln,	T-0F100J.
		10 410 410 400 400 4	I-08100T
,nl 781,0+\0-	.nl 731,0440-	.nl-Y10:0+\0-	The state of the s
'ul 781 0+/0-	'ul 751 ,0+\0-	.ni 7 ro.0+/0-	Z\$100T
the state of the s	.nl Yar .0+\0. .nl Yar .0+\0.		100191 TG0182
.nl 781.0+\0-	.ni Yar.o+\0- .ni Yar.o+\0- .ni Yar.o+\0-	.nl 710.04/0- .nl 710.04/0- .nl 710.04/0-	100191 100131 100132
.nl 781.0+\0-	.nl Yar .0+\0. .nl Yar .0+\0.		7601017 160017 160017 1610017
'u  <u> </u>	.ni Yar.o+\0- .ni Yar.o+\0- .ni Yar.o+\0-	.nl 710.04/0- .nl 710.04/0- .nl 710.04/0-	100131 100131 100131 101935
.nl	Bonetelo T. ribiWnl Ya r.o.+\onl Ya r.o.+\onl Ya r.o.+\onl Ya r.o.+\o.	Thiokness Tolerance -0740.017 In0740.017 In.	TOLERANOE; Lot No. LT01097 100131 T00132
.nl	8.7\$  bonereloT rbb/W  .nl 787.0+\0-  .nl 787.0+\0-  .nl 787.0+\0-	46.88 Thlokness Tolerance - 0740.017 in 0740.017 in.	TOLERANOE: LOI No. LTO1007 100131 100132
eonateloT rigned .ni Y81.0+\0. .ni Y81.0+\0. .ni Y81.0+\0.	6.74 6.74 SORETEIOT (NDIV) IN \$21.04\0- IN \$31.04\0- IN \$31.04\0-	46.8 46.8 46.8 46.0 0 17.0 40.40.0 17.0 40.40.0 17.0 40.40.0 10.0	T00198 T00198 TOLEKANOE: 1,01 No. LT01097 100181 T00188
14, 40 00, 21 00, 21 00, 21 00, 20, 20 00, 40, 20, 40, 10 01, 70, 0, 40, 10	6.75  8.75  8.75  SORETEIOT ONLY  A 17 78 7.04/0-  A 17 78 7.04/0-  A 17 78 7.04/0-  A 17 78 7.04/0-	46.0 8.34. 46.8 17hlekness Toleranee -0740.017 in. -0740.017 in.	T00191 T00193 T01983 T0LERANOE: L701097 L700131 T00131
14, 60 00, 11 00, 12 03, 21 03, 21 Langth Tolerance Langth Tolerance in Tat. 0+\0- in Tat. 0+\0- in Tat. 0+\0-	6.05 6.04 8.15 8.15 SORETEIOT (thb)W Al Yar,0+\0. Al Yar,0+\0. Al Yar,0+\0.	48.7 44.2 44.2 46.0 46.8 71/10/me95 Tolerance -0/+0.017 in.	T01241 T00192 T00193 T01ERAUCE: 1,01 No. 1,00197 T00193
03.51 03.61 04.91 00.81 03.81 62.83 18.00 10.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00	8.96 6.06 0.04 8.78 8.78 abnerelo T dibiVV ni Yar.0+\0. ni Yar.0+\0.	44.2 46.0 44.2 44.2 46.8 46.8 7.40.017.m -0/+0.017.m -0/+0.017.m	701236 T01241 T00192 T00193 T01ERANOE: L010397 L101097 100131 T00131
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Vidde seonsielo; AAS\F

### 6. SQUARENESS: Meximum difference between diagonale (inches):

	reverse 144.6 inches
Ji, rlibiyox680.0	
	serioni 6,36 enigne.
11, ribiy x 0 4 0, 0	MANUAL STANSACTOR

### 6, FLATNESS: Allowable deviation from Flat(Inches):

A (I-rilli) Est E	Bow: Max deviation from a straight edge work vique economic AASN:		
Man & A	Width: 48.8-60.5 in:		
283 to 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	řil Ö.S. seenHoiriT		
	inf 8.84 :NibiW		
'U 28/9	ni 0,1-858,0 (agerxiold)		
	711 3,08-3,84 711bIW		
.m. 8r/8	Thickness: 0.375-0.6-in		
aserilali aan	evans()		
0.625-2:0 In. 0.038 Inch in any 2 ft or less	- SSG  JO		
0.375-0.600 in . 0.050 inch in any 2 it or less	Longitudinal flatness 3/32 indivin any 6 ft		
asautali naga-hod3	All Character and March Assay		

7, Lateral

8, Surface quality:

- ◆Brushed finish.
- Scretches that connot be felt with the tingernali are acceptable on the surfaces. ◆Edge bur must be small enough not to cause interference when packing.
- MEXITS galfussem series earlies on transfer area measuring Sfix3ff.

10, Plate Marking: Each plate will be line marked showing the following:

♦ Nominal thiokness(inohes)

.0M 10.1 .

FINOSZ ACID-SMA 60282-3M2A 7204 SMA 6028-MT2A:nollsoficed@

● G. W. (kg)

♦ N.W. (kg):

ALBN Hebborg

11. Labellng: Each pack shall be labeled with the following information:

eteld yollA multimulA 💠

Cuetomer:

◆ Alloy & Temper

♦ Size(inches):

• Pellet No.

MATERIAL CONFORMS AME GOAZSOM1, AMS 4027, ASTM 5209 SB-209 IN ALL RESPECTS

CHIEF INSPECTOR



### MATERIAL RECEIPT INSPECTION FORM

C HRB DUR A DUR D WEBSTER	NH.	IG (se	TYPE OF MATERIAL SIZE OF TEST SAMPLE HORDNESS / DUROMETER READIA
D RESULTS BELOW	SECOR		
SIAL AND PREFORM A HARDNESS CHECK.	<b>A</b> 3TAM	OE	CUT SAMPLE PIECE
	N	٨	DOES THIS REQUIRE AN EXTRUSION REPORT
	(1)	Υ	DOES THIS MATERIAL REQUIRE  ENGINEERING SIGN OFF
	N	(1)	CORRECT M# ON THE MATERIAL
	N	_	CORRECT MATERIAL IDENTFICATION
3889 HIM	N	B	CORRECT REF # TO LINK CERT
		7	PHOTO REQUIRED
And s	JN		CORRECT THICKNESS
Est note	N	(2)	CORRECT MATERIAL PER M-DRAWING
	N		CORRECT GRAIN DIRECTION
		À.	COKROSION
	N	(M)	CORRECT FINISH
			SURFACE DAMAGE
	(N		
COMMENTS	GCK		DESCRIPTION
	AC.	N	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PART NUMBER: SPECIFICATION:

M303R D.DDD

EG. 0.75" ROUND BAR = M303R0.750

WHERE "D.DDD" = DIAMETER IN INCHES

PURCHASE MATERIAL: AISI 303 SS. ROUND BAR (NOTE: AISI 304/316 NOT ACCEPTABLE)

ASTM A582

DE APPR. MFG. APPR. DESIGN B REFORMAT DWG, ADD SPECS (ZN D8-1), REF PAR 08-020A M303R 303 ROUND BAR NT DART AEROSPACE LTD TO THE PROJECT OF THE PROJET OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT O DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA DS CP 01 12 20 DATE SHEET ! OF 1
SCALE
NTS 10 01 05 REV. B

10.01.05

0

North American Stainless Canada Inc. 740 Imperial Road North
Guelph, ON NIKIZ3

### METALLURGICAL TEST REPORT

(502) 347-6000 6870 Highway 12 East Ghent, KY 11045-9615

Certificate: 383542 N Mail To:

Customer: 007060 001

Ship To:

Legboe

Date: 2/20/2018

Page:

Corrosion:

Finish; CD Steel: 303

Heat Treat Code: 45,401 REMARKS

Round Bar, Annealed, Cold Draw UNS 30300, ASTM A58312 EN 10204 3.1, ASTM A484/16 AMS 5640V TYPE 1, QOS-764B CONDITION A SCLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12b

PRODUCT DESCRIPTION:

NAS Order: PN 0089721 01

Your Order: C113057

IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION 2011/65/EU.ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG COMPLIES W/REQUIREMENTS OF DFAR 251.225-7009 EU DIRECTIVE

MECH CHEWIC 3889 NAS Heat BJ2863 9 Product Σd × Ė 2 ALYS Bn 3 K (2) Skid # Diameter Ω .3140 . 047 CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) 18 CO % .3750 .49 .11 ď 8120 17.12 CR % Weight CU s 1,109 . ... ----Length----% NO 1.91 Lab Accreditation ₹ 0 % 144.00 . 285 Mark Pieces Commodity Code z z 57 .017 Bureau, ISO/IEC 17025, Certificates L2323 % IN 8.59 Chemical Analysis per ASTW A751/14a .033

### ANIC H М **R** 0 면 Z H HE D

NAS heroby certifies of the test methods	Product Id
NAS hereby certifies that the analysis on this certification is correct. Based the material of the test methods used the material.	R L 2
tification is correct	HB .2YS KSI 216.0 76.80
	UTS RSI 113.68
	RA Elng % 2"
	8 5 2 x

tested and this report cannot be reproduced, except in its entirety, without the results relate only to the items

Technical

Product Description	Weight	Qty	C	СМВ	EXP PCS NB	В/О	NI
					5	5	
LINE#5							
HEAT: 892190							
6 FLAT ALU 3/4 X 1 1/2 6061-T6 *		0.00	PI_\$CLB	0.00			
LINE#6	-						
HEAT: 68549	-						
7 ROUND SS 7/16 304 (R)	*****	0.00	PI_\$CLB	0.00			
9 7 8							
LINE#7 HEAT: CH-6643							
8 ROUND SS 3/8 304 (R)		0.00	PI \$CLB	0.00			
RSS-38 5768							
100							
LINE#8							
THE TANK OF THE TA					abbirilaniyada		
40 HEAT TRE	<del></del>	0.00	PI_\$CLB	0.00	onderlandra (colored		
1 X 12'							
LINE#9 HEAT: 177569					<u> </u>		
10 ROUND 4140 HEAT TREAT 1 1/2 (R)		0.00	PI \$CLB	0.00			
R4140-112H <b>4893</b> 1 X 5'-4" OFF CUT					***************************************		
LINE#10							
HEAT: A173444							
11 ROUND SS 3/8 303 (R)		0.00	PI \$CLB	0.00			
RSS-38303 5765						etastico cum no	
LINE#11							
Total Atoth							

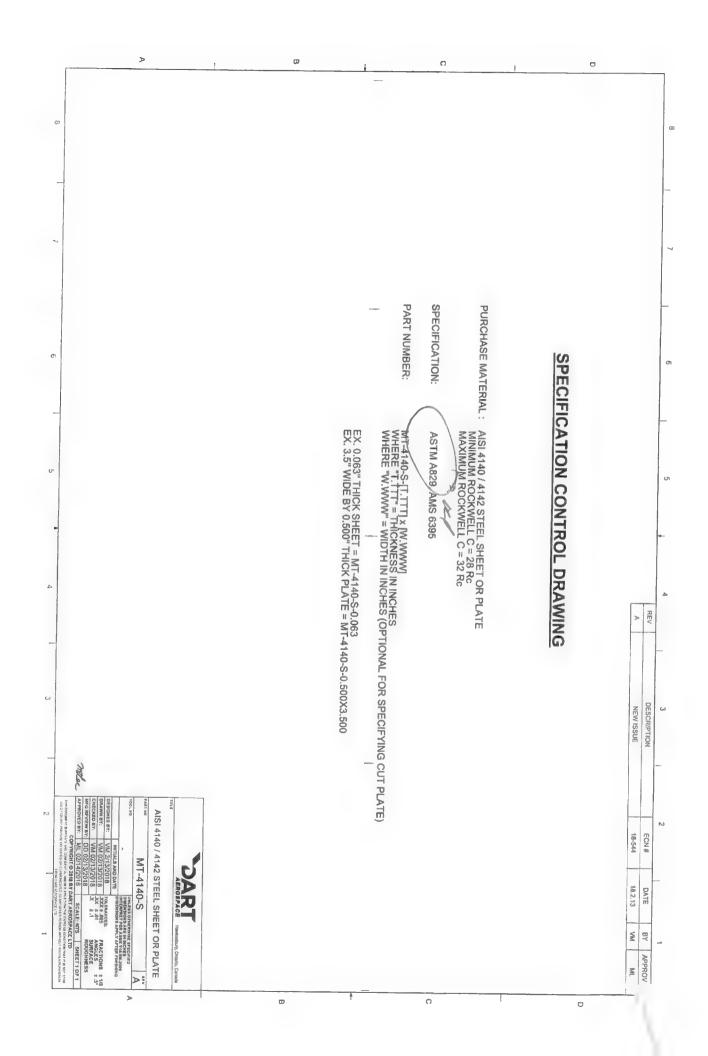
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MEBSTER	DNK D		PREFORM IS BELOW HRB				COT SAMPLE PIECE
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					Q	1	IS MATERIAL REQUIRE VEERING SIGN OFF
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			Y & FI	WII:	N N	<b>X</b>	NATERIAL PER M-DRAWING RECT THICKNESS
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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810S 1 1 YATT



Note:

### Chemical certification Certification chimique

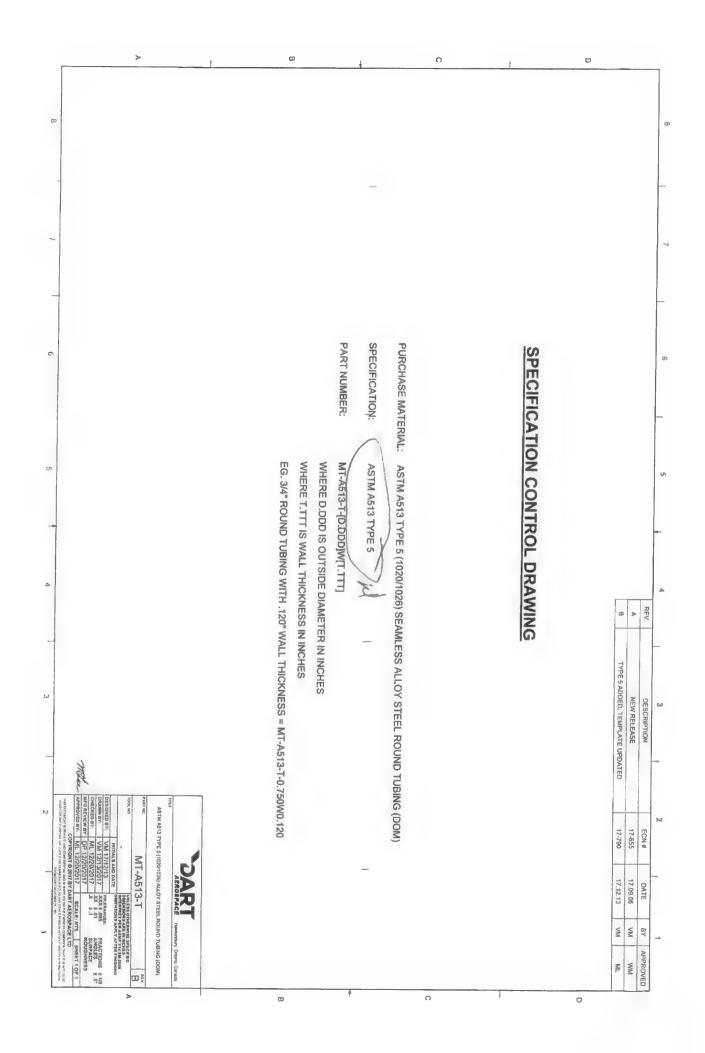
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We carrify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material hours certifions que les données of haut on été vérifier et sont conformes d'après un certificat originale qui nous a été fournit par notre fournisseur

Prepared by: / Préparé par:

		ē	he Quality Offic	located in t	STers	93	
						10	IESS / DUROMETER READI
							JAIRƏTAM 40 F TEST SAMPLE
MEBSTER	D B D	A AUG	HRB	НКС	1		DE MATERIAL
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					N	W	SECT M# ON THE MATERIAL
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



9826-ADT 50P00

### TME-1000130

### TPI Work Test Certificate

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FORL BOX HOW S IS MILE BOYD! VAVDE CHEMNYI - 600024 THE PRODUCTS OF INDIA - MODULE +1 TUBE INVESTIGATION OF INDIA LABORA LABORA

AIGNI

Order No.

Customer

13-0CL-11 Date \*EVE/SCILVOLIS TONOT

Jeb'/Betch No.

Mydice Ne Javolce Data

: BECF1410100

\* 3005054060935

11-100-91

SECIENCE STATES STATES - COM : BC8306/16-AUG-17

Bundle No's Condition Specification Describios

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Tabe Marking Lagging Bundle Cust Part No

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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

 $\Box$ 

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SPECIFICATION: PART NUMBER:

PURCHASE MATERIAL: AISI 303 SS ROUND BAR (NOTE AS) 304/316 NOT ACCEPTABLE)
SPECIFICATION: ASTM A582

M303RD.DDD DIA.

EG. 0.75" ROUND BAR = M303R0.750

WHERE "D.DDD" = DIAMETER IN INCHES

DRAWN
CHECKED
MFG. APPR.
APPROVED DESIGN REV B REFORMAT DWG, ADD SPECS (ZN D8-1), REF PAR 08-020A NEW ISSUE HAWKESBURY, ONTARIO, CANADA

DRAWING NO.

M303R

TITLE

303 ROUND BAR

COPYRIGHT 6 2001 BY OART AEROSPACE LTD

NTS

COPYRIGHT 6 2001 BY OART AEROSPACE LTD DESCRIPTION DART AEROSPACE LTD DS DS SHEET 1 OF 1 DATE 01 12.20 10.01.05 REV. B SCALE ➣

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DATE

10.01.05

DE APPR.

STN

4.576

North American Stainless Canada Inc. 740 Imperial Road North Guelph, ON NIKIZ3 NAS

METALLURGICAL TEST REPORT

Ghent, KY 41045-9615 (502) 347-6000 6870 Highway 42 East

> Mail To: [7] Canada

Certificate: 363775

Customer: 007036 501

Ship To:

Date: 18/15/2017 Steel: 303 Phutshi Co

Page:

Corresion:

Heat Treat Code: 43,719

NAS Order: PN 0086203 02

Round Bar, Amealed, Cold Draw UNS 30300, HETH'ASEZ/12 ON 10204 3.1, ASTM A484/16 AMS 5640V TYPE-4, QQS-764B CONDITION A SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12b

PRODUCT DESCRIPTION

Your Order: 4500835654

IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION 2011/65/EU.ROHS. EAR+AOD+CC. NO WELD REPAIR. MELTED AND MFG COMPLIES W/REQUIREMENTS OF DEAR 252.225-7009 EU DIRECTIVE

Product Id	Skld	Skid # Diameter Si	Size	WeightLength Mark Pieces Commodity Code	ngth	Mark	Pieces	Commodity Code
BJ0636 8		7.7500	J	1,053	144.00	V3	wif	1 160008217
		)			Lab Accredit	ation	Bureau,	Lab Accreditation Bureau, ISO/IEC 17025, Certificate# 12323
CHEMICAL	ANALYSIS	Chilcountry of Melt	(Spain)	try of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)	South Africa) JR	(Japan)	O	Chemical Analysis per ASTM A751/14a

030 8.49 MI . 048 Z .267 2 1.97 Ž . 28 CC 17.01 CR 13 .50 8 HS .3405 .036 N. TO) U ð 90 MAS Hant 572C

### (C) ROPERTIE p, MECHANICAL

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							638

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr.

KRIS LARK

12/15/2017

P0.1434

SIGNED OLE BA:			INSPECTED BY: 74
ENGINEERING SIGNOFF (if required)		×	DC 18 INSPECTION
located in the Quality Office	SIOLS	293	
		10	SIZE OF TEST SAMPLE HARDNESS / DUROMETER READIN
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			DOES THIS REQUIRE AN
	(N)	1	DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF
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02/02/1200 PO/BATCH NO.: 039776/50	7-1	HO	MATERIAL: JAINETAM AM :ETAG

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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DATE: 9-89 MAY 1 1 2018

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PURCHASE MATERIAL: AISI 4140 H ROUND BAK

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WHERE D.DDD = DIAMETER IN INCHES PAKT NUMBER: MYHOH-R D.DDD

EG. 78" ROUND BAR = MHIHOH-RO. 875

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H211-05150

PAGE 01/22/18 CERTIFICATION TT0181H STACHTRASO

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9871-7SE3+ NI bnommeH 1412 150th Street



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WE, hereby certify that these goods were produced in compliance with all applicable requirements of sections 6, 7, and 12 of the Fair Labor Standards Act, as americal alloy that these goods were produced in compliance with all applicable requirements of Labor issued under section 14 thereof. Material was not exposed to mercury or any metal alloy that its liquid at ambient termerature during processing or while in our possession. No weld repairs performed on the above material.

Walter P. Kretzler - Director of Q.A./Chief Matallurg

Walter P. Kretzler - Director of O.A./Chief Metallurgist

CERTIFICATE OF TEST

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Brissifo	CERTIFICATION
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PAGE

6621-2259+ NI puommaH



LENGTH MM 6096 / 7315.2 ганеля 50, 0., 1 54, 0., WW 0001'85 WW 386 0009.1 3mc Drivor Round GRADE QT4140 TEN 141200348004A CUSTOMERITEM VO12142 оврем 960193-1 **БЛИСНУЗЕ ОКОЕВ** ВЗВЗВ4

10 4140/42 CAVAL-TRT QT-HR-STRESS FREE 130K TS 110K TS 190K 16K EL 50% RA SURFACE HBN 289/321 Speckey: ASME SA 1938A193M CR-B7 Speckey: ASME SA 1938A193 M CR-B7 Speckey: ASME SA 1938A193 Speckey: ASME SA 1938

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WE, hereby certify that these goods were produced in compliance with all applicable requirements of accitons 6, 7, and 12 of the Fair Labor Standards Act, as amended, and all regulations and orders of the United States Department of Labor stand under section 14 thereof Material was not exposed to mercury on any metal alloy that is liquid at ambient semenature during processing or while in our procession. No weld repairs performed on the above material

Walter P. Kretzler - Director of Q.A./Chief Metallurgist

CERTIFICATE OF TEST

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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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WHERE D DDD = DIAMETER IN INCHES



Hohlh ISIV PUPLINGE MATERIAL: KOUND BAK

-6193-03- BRADE -83 /- ASS-03 /- ASSES-91A-1 28-484-A-150-468A MTZA SO ONIH 121A

MINIMUM WITHWILE TENSILE STRENGTH = 66 KSI

MAILTOH-R D. DDD

EG. 78 ROUND BAR = MHIHOH-RO.875

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OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

R4140-14-V PO.12367 H9633

41614

EN 10204:2004-3.1 PCT Bundle lags with Eatin Steel Identifiers reference the steel grade, heat, purchase order number where applicable, part ramber, product description and quantity. Material produced in accordance with Eaton Steel's Quality Manual QUA-00002 hav g deset 17212013. 1600 - 1700 CERTIFIED CONFORMS 500 - 2500 148000 Value 80 - 100 17.00 271.0 0 - 20 COMFORMS COMPORMS CONFORMS Report COMPORMS 1 HR RD 4140/42MM 24RBIN SBO OTSK FG MST 4.94 USA UEA Length 24ft6in Carbon & Alloy Steel Bars End Guench Reg Storl Bars, Alloy, Standard Grades ASTRA BC Tendile and Yield properties The Union
Temper Temp in Pahrenhait
Austenities Temp in Pahrenhait
Strues Relief Temp in Pahrenheit
Magnetism in Gauss Item Description Tensile Strength in PSI Units Ory Units Yield Strength in PSI Units Porcent Tempered Martensite Percent Blongation Percent Reduction in Area Brinell Surface Time at Temperature Quench Medin Requirements Cart atress free Melted in Country Rolled in Country Reduction Ratio Reported Micro All bundles listed below were produced using sieel from Help 177569 issigned by ALTON STEEL and were completed from Eaton Sieel Job 828517. Customer item ROLLED CODNERY
RED RATIO
ASTIM Standaru AUSTEN TEMP P MAGNETISM-HT BRINKLL SURF TIME AT TEMP QUENCE MEDIA WILL COUNTRY X304-05 STRESS FREE HT4140-420T A434-90a-BC PERCENT IM SR TEMP P Eaton Steel Bar Company Inspection Certificate 1686880 IN. HRC - 1.0090 0.01300 0.02800 0.00300 0.23000 0.08900 0.84700 0.00300 0.25000 Customor PO 0.15900 0.03300 47 50 43 2 41 36 0.9910 Ship Date 16/16 inch from Quenched End 18/16 inch from Quenched End 20/16 inch from Quenched End 22/16 inch from Quenched End 24/16 inch from Quenched End 28/16 inch from Quenched End 38/16 inch from Quenched End 32/16 inch from Quenched End 1/16 inch from Quenched End 4/16 inch from Quenched End 5/16 inch from Quenched End 6/16 inch from Quenched End 7/16 inch from Quenched End 8/18 inch from Quenched End 8/18 inch from Quenched End 9/16 inch from Quenched End 10/16 inch from Quenched End 11/16 inch from Quenched End 12/16 inch from Quenched End 14/16 inch from Quenched End 1/16 inch from Quenched Hnd 2/16 inch from Quenched And BOI. Report macro etch results. Element Sum Limit Ideal Diameter Molybdenum Columbium Aluminum Nickel Copper C1-11111 DIAMETER

Tel: 248-388-3434 Fax: 248-398-1434

We hereby certify the above to be in conformance, and a true copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the possession of Eaton Sheel.

This datement was prepared in out are of effection

Thomas Snabes, Corporate Metalfurgis

Created on 13-Dec-2017

10221 Capital Avenue, Oak Park, MI 48237 USA

http://www.eatonsleel.com



### CERTIFIED MILL TEST REPORT

Alten States Test Lab #5 Cut Savest Atten, il.. 63002-4001 (#18) #63-4491 (Par)

		Decor Sa 1002101 Oak Park	Enton Steel Corporation 100721 Clipital Avenue Calt Part, NII 48237	etto.			y,	OT 43HS	Cathon Court P	Lation Steel Corporation of Apolito Hatel Titral 10400 Capital Street Oat Park, ME 48237	These red						
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Printed 10/24/2017 11 10 AM 七日11142 Approved Date 10/24/17 EATON STEEL CORPORATION 10221 CAPITAL AVE. OAK PARK, MI 48237 GERDAU 25 Commercial Road, Hustraplon, IN 46750 (780) 356-9572 (AM (780) 356-9572 NO 828517 Huntington Facility - Test Report Customer Name Location Test Remarks: 1 HR RD 414042NRA 25FT FQ FG MST Approved M By Metathugial 41745 177869 1.0000 1.0000 4140 GB Sales Order Heel Number Size Turned OD Chemistry Data Grada

Other 177669 0.410 0.890 0.011 0.020 0.230 0.084 0.189 0.250 0.250 0.020 0.091 Surface Milk Location 27.9 N<sub>E</sub>n Heat Number C HerdnessType G&T Handsons Test Data Re 2 2

Tentals Location PC# Mid Radius Core Gage Length Eleng % R/A % 33.7 Method 2 Yhald 2 Sample Gage: .500" Dis. Bale Mumber: Method 1 **G&T Temsion Test Date** Yield 1 Tensão

Auston et 1,830°F for 0.7 minutes Temperad at 1,400°F for 0.7 minutes Heat Treet Date

Induction Heading Wither Quenched

Center

2.000° G.L.

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2% Officet

148 Ksi 138 Ksi

As Guenched (Rc) Magnetism (gauss) +/- 5 8)traightness 0.1257/8 Ft Description of Other Tests Produced Stress Free Other Test Date
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(Inches)

hacrosturatura

We hareby certify that the reported data are correct according to Gentled these and those of its suppliers,

Page 1 of 1

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ENGINEERING SIGNOFF (if required			C 18 INSPECTION
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		ING	ZE OF TEST SAMPLE ARDNESS / DUROMETER READ
			YPE OF MATERIAL
	НВС		
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AL AND PREFORM A HARDNESS CHECK.	INSTAM.	10 <sup>-1</sup>	DELIZAMBI E PIEC
	(h)	Y	DOES THIS REQUIRE AN EXTRUSION REPORT
	60	7	ENGINEERING SIGN OFF
	(1)		DOES THIS MATERIAL REQUIRE
	N	W	CORRECT M# ON THE MATERIAL
1 1 1 1 1 1 1	N		CORRECT REF # TO LINK CERT DRRECT MATERIAL IDENTFICATION
and we the	HA	4	PHOTO REQUIRED
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gity unt	5/ N	(1)	ORRECT MATERIAL PER M-DRAWING
	N		CORRECT GRAIN DIRECTION
	N (N)	$\frac{1}{2}$	CORROSION CORRECT FINISH
	(N)	5	SURFACE DAMAGE
		//	
COMMENTS	3CK	(CP	DESCRIPTION

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

REV. B AJS 08.03.03 CP 09.07.15 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANDA
DRAWING NO.
F
M304R AND CONTRACT AFROSPACE LTD 304/316 ROUND BAR B REF DRMAT DWG, ADD SPECS (ZN D6 1).
A NEW ISSUE MFG APPR.
APPROVED IN DE APPR.
DE APPR.
DATE 09.07.15 CHECKED DESIGN A REV.

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR (NOTE: AISI 303 NOT ACCEPTABLE) ASTM A276

۵

SPECIFICATION CONTROL DRAWING

O

M804BB:DDD DIA. SPECIFICATION: PART NUMBER:

WHERE "D.DDD" = DIAMETER IN INCHES EG. 0.75" ROUND BAR = M304R0.750

**8** 

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Ship To:

SOD

Certificate: 373018 31 Mail To:

Customer:

007080 003

Your Order: M91116

RODUCT DESCRIPTION:

Order: IN 0257931 04

ROUND BET, ADDRESSED, COLD DYNW

DNS 30400/30403 RF 10204 3.1, ASTM A484/16

ASTM A276/17, ASTM A679/17, ASTM A182/16a CHEM ORLY,
AND BOX79/13, ASME SA182/13 CHEM ORLY

AND 56397, AND 5647K, AND QQS-7630, QQS-7637, ASTM P899/12b

BOLUTION AMERAL TERT 19007 HIM, ASTM A320/17a CL 1 CR BE

ASTM A193/16-ASME SA193/13 CL 1 CR BE

Heat Treat Code: 44,987

Sinish: CD Steel: 304/304L Date: 1/19/2018 Mage: 1

Corresion: ASTM A262/15 Prac A/E ON

REMARKS:

IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION 2011/65/80. NORS. HAY+AOD+CC. COMPLIES W/MEQUINEMENTS OF DEAR 252.225-7009 ED DIRECTIVE NO WELD REPAIR. MILITED AND MYG

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EC 1702		
5, Cart		
Lab Accreditation Bureau, ISO/IEC 17025, Cartificates 12323		
# L3323		

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Cartificates 12323

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### MECHANIC > -W N O H 河河 13 H

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	84.97 111.55	187
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NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Dept. Mgr. Technical

KRIS LARK

1/19/2018

						10	HARDNESS / DUROMETER READIN
						1	SIZE OF TEST SAMPLE
			j			1	TYPE OF MATERIAL
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					N	^	DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF
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					N	$\frac{1}{2}$	CORRECT MATERIAL IDENTFICATION
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8105 1 1 YAM 88-8 :3TAG INSPECTED BY: SIGNED OFF BY: ENGINEERING SIGNOFF (if required) OC 18 INSPECTION

:BTA0

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

 $\Box$ 

SPECIFICATION: PART NUMBER: PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR (NOTE: AISI-903 NOT ACCEPTABLE) M304R D.DDD ASTM A276

(8)

EG. 0.75" ROUND BAR = M304R0.750 WHERE "D.DDD" = DIAMETER IN INCHES

A REF PAR 08-020A ADD SPECS (ZN D6-1).

A NEW ISSUE

DESCRIPTION

 $\cap$ 

Ø

CP 09 07 15

AJS 08 03.03

BY DATE

304/316 ROUND BAR M304R DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

MFG, APPR, DESIGN

APPROVED

09.07.15

6 ROUND DAY ARROSPACE LTD

REV. B SHEET 1 OF 1 SCALE NTS

CC951

18409

### CHANDAN STEEL LIMITED

(COAL OF INDIA RECOGNISED EXPORT HOUSE)

13O 2001 : 2009 CERTIFICATE No. 91 100 011021

7(\*1, 9)-22- 66295600, Fax. 91-22-66193653/34 ADM OFFICE 94, SURH SAGAS, W. C. PATKAR MARKE ABBIEN 480 BF, INDIA

iumlestandantia.viww: stiedsW

Email : cal@chandanatecl.net

1'0N '3/1

1/c. Date:

F824 QC 09A / 02 / 10.12.2012

### MILL TEST/INSPECTION CERTIFICATE 3.1

8102.10.50: Date of Issue : EXP/01152 - 07/2017-2018 Test Certificate No. ACCORDING TO EN 10204; 2005

SPORKERPANT NO. 31 TO 36,45,46,48, & 49/2,142

WINESOTS P. O. No.

SC\_No. & Date

CRIJA - SAYYYCOMINDINC

Invoice No. & Date : 17-18/00447, Dt.08.11.2017

15. - 14. 1890 Lbs. Actual Ordered Net WL **TENCLH** : EXP/01152/2017-18 DI.03.01.2018

DEHARI, TALLIKAMBERGAON, DISTYALSAD, GUJARAT-396171

(EXP. AREA)CIDC, UNBERERCAON & SURVEY NO. 1032 & 3 VILLAGE,

STAINLESS STEEL ROUND BARS PRODUCT DESCRIPTION

CHEMICAL COMPOSITION (Weight %) Continuous Casting 64 Electric Melting, A.O.D. Refining, .91/4 304F CH-9943 รอนวนศูนาเน Process Route ISIV Tolerance Size 15. - 14.

	ssaup		saiA lo no			sgnoffi %	Tenaile Strength  (mgl) s (Mya (Rm)			Aignaste blaiy (S.00A) #4M\mm\/A		Specified
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	N,	iT	ηЭ	!N	oM	z)	S	d	nM	!S	5	

Ob ĐΕ 079 OIE mild

Remarks: 229-232 SC FFS Results XEIV. (HR)

2. Solution annealed at 1050 °C,

1. Cold drawn & Centreless Ground.

3. PMI test done 100% & found Satisfactory.

4. Material is free from radio-active contamination.

5. Inter-Granular Corrosion T/st as per ASTM A262 - 15 (Pr.E) satisfactory.

7. Location of sample - Centre, Direction - Longitudinal, Test Temp - Room Temp, Shape of Test Piece - Round. 6. The material conforms to ASTM A276-15/A479-15 & ASME SA479-13 Specifications.

8. Marking details . Company Logo, Size, Grade & Heat No.

9. The material is manufactured/melt in Chandan Steel Mill and is of Indian Origin.

10. No welding/weld repairs was performed on this material.

23 to 25 BUNDLENO

B.S: RAUTELA

MANAGER - QUALITY ASSURANCE

delails and are meeting the requirements of specification & purchase order. It is hereby certified that the above results are frue and correct in every

53ge 7 of 26

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MEBSTER	ם אחם	A AUG	НКВ	НВС		
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

M6061T6B T.TTT X WW.WWW QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-20098 (OR AMS 4160) OR ASTM B211 OK ASTM B221

8

PART NUMBER:

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES THICK HTOIW

E.G. 1.0" X 12.0" BAR = M6061T6B1 000X12.000

DRAWN
CHECKED
MFG. APPR.
APPROVED
DE APPR. DATE 09.07.13 DESIGN A NEW ISSUE M6061T6B 6061-T6 BAR DESCRIPTION COPYRIGHT © 2001 BY DART AEROSPACE LTD

1 (COMMENT CHANNET AND CHANNET ARROSPACE LTD

1 (COMMENT CHANNET AND CHANNET AND CHANNET AND CHANNET ARROSPACE LTD

1 (COMMENT CHANNET AND CHANNET CHANNET AND CHANNET CHANN DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA

 $\cap$ 

B REMOVE OQ.A-250/11 OPTION, REFORMAT NOTES, ADD ASTM 8211/8221 (ZN D7-1)

Q SO

09.07.13

SHEET 1 OF 1

REV. B

SCALE

1 5111-5-14 -

Rockwell Hardness Test lest de dureté Rockwell

LES ACIERS TRANSBEC (1997) LTEE. Client / Customer:

4024 BOUL LE CORBUSIER # 201 Adresse / Address :

H7L5R2 LAVAL, QC

7011453

# commande

# pou de commande / Purchase order # : POP74-UO

# de matrice / Die #: M2 16477

91 1909 Alliage & trempage / Alloy & temper

# Contrôle / Control #: 84119-2

Nin, requis /

Min. required: 88 HRE

Dureté Rockwell E /

# Coulée / Cast #

**BOCKWELLE HOLDINGSS: 84 HKE** 

Composition chimique typique / Typical chemical composition:

0,20 Max XDM 02.0 08.0 - 04.0 08.0 - 04.0 XDM 01.0 6,1-7,0 XDM 5.0 1989 XDM 20,0 XDM 80,0 \$1'0 - PO'0 00.1 - 08.0 XDM 01.0 0.15 - 0,28 0,13 - 0,29 94'0 - 09'0 1909 XDM 50,0 XDM 20.0 0,10 Max 55.0 - 24.0 0.20 - 0.30 XDM \$1.0 12.0-21.0 \$2'0 - 59'0 A2009 XDM 50.0 XDM 20.0 XDM 50.0 0.48 - 0,52 90'0 - 90'0 80.0 - 10.0 0,15-0,27 27,0 - 88,0 9009 XOM 20,0 XDM 20.0 0.10 Max E7.0 - 2E.0 XDM 01.0 XOM 01.0 0,13 - 0,25 09'0 - 82'0 2909 11 UZ 10 DW uyy כת 9, 15

la norme ASTM 8-221-14 excepté pour la section 8.2 (nombre de spécimen). Nous cenifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par

ASTM B-2221-14 except for section 8.2 (number of specimen) . We hereby certify that the material supplied meets the chemical properties as published by the

date: 2017-03-10 Sincèrement vôtre,

Yours Iruly.

Quality Director Directeur Qualité Daniel Alfredo Pellelier

Max. permitted: 100 HRE

Max. permis /

Description: 1 1/2" X 3/4" FLAT BAR

Longueur / Lenght: 6097 mm

		ā	e Quality Office	ocated in th	SJƏJ	<del>168</del>	
						10	ESS / DUROMETER READIN
						-	F MATERIAL TEST SAMPLE
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

:3TAQ

DATE: 9-89 MAY 1 1 2018

## SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR SPECIFICATION:

M6061T68 T.TTT X WW.WWW

B

PART NUMBER:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/A (OR AMS 4160) OR ASTM B211 OR ASTM B221

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

THICK

WIDTH

DATE 09.07.13 DRAWN DESIGN B REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM 8211/8221 (ZN D7-1) DESCRIPTION 6061-T6 BAR HAWKESBURY, ONTARIO, CANADA DRAWING NO.
M6061T6B DART AEROSPACE LTD COPYRIGHT © 200 BY DART AEROSPACE LTD

TORNAL NO CORPORAL AND SUPPLIED TO ANY TO SUPPLIED THE LONG CONTROL OF THE LONG CONTROL ç SHEET 1 OF 1 01 06 08 DATE 09 07 13

0

SBI 1,329 160001320 .75"X8" 144" Mill 6061 T6511 C-012774-1 100 81/11/10 892190 035450 4200823583 PICKERING, ON LTW 3R8 1820 CLEMENTS RD 1304051 8191943 01/11/2018 SIGNATURE ALUMINUM CANADA ON ACIANAD ப்பட்டுந்த FAL-348 CERTIFICATE OF COMPLIANCE sidustrure

**bcs** 

91

00.0 10.0 10.0 40.0 80.0 28.0 90.0 61.0 62.0 09.0 JZ uz II UN no !S

This Material is Made in Canada This Material is RoHS Compliant

This will certify that the material described herein has been inspected and tested in accordance with Signature Aluminum Canada's standard sampling and testing procedures or in accordance with the requirements of any specification forming a part of the material are set extent indicated herein. Data of chemical compositionfor the material and test results from samples representative of the material are set forth above hereof or in any attachments hereto. This information shows that the material meets the applicable requirements. Inspection and test records are maintained on file. This certificate shall be deemed apart of and subject to the terms and conditions of warranty set forth on the reverse side of our order acknowledgement form. No other warranties are applicable.



1 PKGS

ISO 9001/TS16949 Registered Company

moo.muleanulengis.www fe au fisiV

S. Gooder Quality Manager Signature Aluminum Canada Inc

Mechanical Tests:

80-1558 MT2A & 50-8068 MT2A

1,314

\$81

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					N	1	ENGINEERING SIGN OFF
							DOES THIS MATERIAL REQUIRE
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

:BTAQ

ENGINEERING SIGNOLL (ILliednied)

SIGNED OFF BY:

8105 1 1 YAM8-9

SVG

:BTAG

INSPECTED BY:

DC 18 INSPECTION

## SPECIFICATION CONTROL DRAWING

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SPECIFICATION: PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-220/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221 M6061T6R|D.DDD| |DIA. |

PART NUMBER:

EG. 5/8" ROUND BAR = M6061T6R0.625 WHERE "D.DDD" = DIAMETER IN INCHES

MFG. APPR APPROVED

DRAWN DESIGN

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6R
SHEF

REV. B SCALE

>

B REFORMAT DWG, ADD B2118 B221 SPEC (ZN D8-1),
A NEW ISSUE

DESCRIPTION

γВ Ç DS.

DATE

09.07.13

6061-T6 ROUND BAR

12F0PH EGFT- AST

ts15 = hE-744

### Rockwell Hardness Test Test de dureté Rockwell

7020941

TE2 ACIERS TRANSBEC (1997) LTEE.

Client / Customer:

4024 BONT. LE CORBUSIER, #201

Adresse / Address:

LAVAL, QC

HYLSR2

# commande

# pou de commande / Purchase order #: OU-47416

Description # de matrice / Die # : MS 9909

roudnent / reudy): Alliage & trempage / Allay & temper : 91 1909

# Controle / Control #: 85611-1

# Coulée / Casi #: 68706

Rockwell E hardness: 91 HRE Dureté Rockwell E /

Composition chimique typique \ Typical chemical composition :

ŧ1	UZ	10	Бүү	υW	U.D	94	15	
xoM 01.0	xoM 01.0	xoM 01.0	09.0 - 24.0	xoM 01.0	xoM 01.0	xpM &&.0	09'0 - 02'0	8909
xDM 01.0	0,10 Mox	xoM 01.0	09'0 - 07'0	XDM 01.0	XDM 01.0	XDM 25.0	06.0 - 06.0	5009
x0M 20.0	XDM 20,0	xDM £0.0	\$5.0 - 8\$.0	0.18 - 0,26	60.08 - 0.16	0,14-0,28	17.0-55.0	¥5009
0.15 Max	xDM 25.0	0.04 - 0.35	0.80 - 1.20	XDM 21,0	07'0-51'0	xOM 07.0	08.0 - 04.0	1909
xpM 02.0	XDM 05.0	***	08.0 - 04.0	08.0 - 02.0	XDM 01,0	xoM 2.0	6,1 - 7,0	LSE9

Min. required: 88 HRE

Min. requis /

Nous certitions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASIM 8-221-14 excepté pour la section 8.2 (nombre de spécimen).

ASTM B-221-14 except for section 8.2 (number of specimen) . We hereby certify that the material supplied meets the chemical properties as published by the

date: 2017-03-28

Sincérement vôtre,

Yours Iruly.

Quality Director Directeur Qualité Daniel Alfredo Peiletier

Max. permitted : 100 HRE

**ww 2609** 

Max. permis /

3/4..KOD

F.07.04 rev0 Rapport depropriétés mécaniques.doc

		:3TAG			18	1 50.	I YAM SITAO	
		IED OLE BA:	SIGN	-			ED BK: 44	INSPECTE
(if required)	NG ZIGNOŁ	ENCINEERI					NOIT	OC 18 INSBEC
		ā	the Quality Offic	located in	SIGIS	:91		
						10	NOROMETER READIN	ARDNESS / [
							SAMPLE	TSET OF TEST
							JAIRE	TAM 40 39Y
WEBSTER	ם אחם	A RUG	НКВ	НВС				
			ULTS BELOW					
	22 CHECK.	S HARDNES	ND PREFORM	A JAIRE	<b>TAM</b>	OF	CUT SAMPLE PIECE	
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					1	^	IS REQUIRE AN	
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					N	(1)	JAIRATAM BHT NO	CORRECT M#
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		6050	11984	KICH	N		EF # TO LINK CERT	CORRECT RI
					N	X	) REQUIRED	
			1-0-0 0		N	(4)	ST THICKNESS	
			<i>१७७५</i> १	1472A	N	(4)	ERIAL PER M-DRAWING	
					N	W	BRAIN DIRECTION	
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	S	COMMENT				(CP	ИОІТЧІЯЭ	DES
0.52	(ED: 3	KNESS ORDER	THICI		30	ON ON	SERT REC'D:  'RECEIVED:  'REJECTED:  'REJECTED:	YTITNAUQ YTITNAUQ
0/02/	380 ::ON	PO / BATCH1		05/	17 1	1 14	MATERIAL: WIGOL	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115

OQ-A-225/B OR ANS--OQ-A-225/B (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/B OR ANS--QQ-A-200/B (OR AMS 4160)
OR ASTM BZ11 OR ASTM BZ21

M6061T6RID DDDD:
DIA.

PART NUMBER:

WHERE "D.DDD" = DIAMETER IN INCHES EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED

MFG. APPR DRAWN CHECKED DESIGN REV B REFORMAT DWG, ADD B2118, B221 SPEC (ZN D8-1),
A NEW ISSUE 09.07.13 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
SHE 6061-T6 ROUND BAR TOPYRIGHT @ 2001 BY DART AEROSPACE LTD

THE PODDMET FROM THE CONTEST OF A FRANCE LIFE THE CONTEST OF THE PROPERTY OF THE PROPE DS CP 09 07 13 REV. B SHEET 1 OF 1 01 06 08 DATE SCALE Þ

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### Service Center Metals

5850 Quality Way Prince George, VA 23875

# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



OUR ORDER NUMBER 946676 11
CERTIFICATION ASTM-B221-14 StenciiCont

AMS-QQA-200/8 Rev-A obsolete

SPECIFICATION

D.Schroeder (Canada)

SALESPERSON

3/28/2018

DATE OF SHIPMENT

SHILT TO SHIP TO CUSTOMER PART NUMBER S62427 DIE NUMBER AD0027 DIE NUMBER CUSTOMER PO ACTON TEMPER 60061-T65114 COUSTOMER PART NUMBER DESCRIPTION TO CUSTOMER PART NUMBER PART NUMBER DESCRIPTION TO CUSTOMER PART NUMBER PART

We hereby certify that the material covered by this report has been aspected in accordance with the most recent certification.

Tevision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the described on the material met the composition limits and had the mechanical properties shown. Hems produced and certified as 6061-76511 also meet the requirements of 6061-76. Lightning Rod Tite 3.750 +/-.012

All aluminum products supplied by Service Center Metals. LLC contain no functional mercury Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

SCIM is ISO 9001-2015 certified

This product is RoHS-2, REACH, and DFARS compliant.

_	And and a second	
es		3
Mechanical Properties	Lot No.	201805092
chanic	Fests	1 20.
Je	6	1 /

Percent		max	13.20
Per	Channel to diffiguration at	Till	13.20
rength	An de lawed for each	max	53.20
Yield Strength (KSI)	a demonstrate.	mi	53.20
(KSI)	A Villadiriday	Xer I	26.50
Ultimate Tensile Strength (KSI)	*		26.50
	Without countries out		
Test Date		2/10/10	0 18 10
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	Melt Source:		United States of America	United States of America
ers	Total	4	5.13	0.15
0	Each Total	0	0.00	0.05
	A	07 27	0.10	97.39
į		0 00	3	0.02
ı	5	0.08		0.08
Ċ	51	60 0		0.09
MA		0.83		0.88
Min		0.10		0.10
Ĉ	3	0.34	1.	0.35
TI.	1	0.36	0	0.37
S	- duality	92 0	070	2 0
Allov		6051	8084	
Lot No.		201805092	201805002	7000
Cast #		03121803	03121804	

GCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 3714/2018

Print Date: 3,28/2018

LTS BELOW	HKC		10	: MATERIAL TEST SAMPLE SS / DUROMETER READIN
LTS BELOW				
LTS BELOW				IAIRATAM
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	וואסת נומי	つつコ	J	
バガレーコガイ ロ				CUT SAMPLE PIECE
O DDEEODI	140 10103	T 0 1 4	10.	TO THE PIECE
		(N)	X	TRUSION REPORT
		5		ES THIS REQUIRE AN
			X	SINEERING SIGN OFF
				THIS MATERIAL REQUIRE
				CT M# ON THE MATERIAL
10107	4 wel	-		ECT REF # TO LINK CERT  MATERIAL IDENTFICATION
12724	+ 100			PHOTO REQUIRED
		+		DRRECT THICKNESS
50099	MISH		8	T MATERIAL PER M-DRAWING
	T-V	+	(X)	SECT GRAIN DIRECTION
****			V	CORROSION
		N	W	CORRECT FINISH
		N	人	SURFACE DAMAGE
		(/	1/人	
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	19492	1979# pool	N 1975 # 100 1 N N N N N N N N N N N N N N N N N	1979# poft N & N & N & N & N & N & N & N & N & N

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

: BTAQ

SIGNED OLE BA:

8102 1 1 YAM >-0

INSPECTED BY:

## SPECIFICATION CONTROL DRAWING

EG. 0.063" THICK SHEET = M5052H32.063 WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

5052-H32 SHEET SPEC

COPYRIGHT 0 2001 BY DART AEROSPACE LTD

THE MENT OFFICE THE CHARGE AND SAFECTION OF THE PROPERTY OF THE CHARGE AND SAFECTION OF THE PROPERTY OF THE CHARGE AND SAFECTION OF THE CHARGE AND SAFET A

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M5052H32S
SHEE

REV. B SCALE

Þ

DESIGN
DRAWN
CHECKED
MFG. APPR.
APPROVED

B

 $\cap$ 

.XXX BY 4FT BY 8FT

PREFERRED SIZE:

OR AMS 4018 OR ASTM B209 M5052FI3ZS XXX

PART NUMBER:

SPECIFICATION:

PURCHASE MATERIAL: 5052-H32 ALUMINUM SHEET

D

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IA	sparito	īT.	πZ	10	5 <sub>W</sub>	riM	Cn	9-j	iS.	Lot No.	тепрег	Joy No.
MENAIN	91.0	-	1.0	*	*	1.0-1.5	-60.0	7.0	9.0	QNAC	INATE	
NAMBR	61.0	550.0	010.0	010.0	010.0	081.F	0.120	069 0	081.0	GFA1706W30032	PH	3003
	31.0	860.0	010.0	010.0	960.0	1.172	0.120	595.0	STL.D	GFB1706W30168	HIT	3003
NIAMER	51.0	7620.0	2600.0	6800.0	E110.0	1,1267	CATTAS	8122.0	378F.0	GFB1709W301Z0	PLH	3003
MIAMER	51.0	9250.0	0.0125	9800.0	9610.0	BELL!	79110	8078.0	971.0	GFB1710N30001	PIH	2002
REMAIN	Sr.0	0.032	1010.0	0.0104	900.0	1,1458	2601.0	6688.0	Sr.0	GFB1710W30010	HId	2002
REMAIN	51.0	2150.0	100.0	2E10.0	S010.0	98511	6911.0	7093.0	8781.0	GFB1710W30025	HIA	3003
REMAIN	61.0	2620.0	600.0	1910.0	4010.0	1,1095	9911.0	1699.0	9121.0	CEB1710W30032	PLH	€00€
REMAIN	21.0	FEEG.0	0.0063	6600.0	9650.0	ESTIT.	1261	<b>2689 0</b>	7191.0	GFB1710W30046	FIH	6009
MEMAIN	er.o	60000	<b>3500.0</b>	2800.0	7020.0	1821.1	7717.0	9866.0	1471.0	GFB1710W30047	PIH	£003
MEMAIN	21.0	2160.0	100.0	1910.0	8900.0	348T.F	9811.0	6272.0	6191.0	GFB1710W30048	PLH	500
MIAMBR	81.0	2050.0	9500.0	99100	\$800.0	1,1225	29010	2322.0	9071,0	GF81710W30062		2003
MIAMER	21.0	0,0305	<del>92</del> 00.0	9410.0	Z800.0	1.1225	49010	5955.0	9071,0	GF91710W30083		5003
REMAIN	S1.0	9600	900000	7600.0	2020.0	STT.T	Str.0	0.5732	99410	CFB1710W30064	FIH	003
MEMAIN	31.0	-	1.0	25.0-21.0	2.2-2.8	1.0	1.0	4.0	0.25	7	INATZ	, , ,
NIAMER	čř.0	E810 0	0.0172	DZTF.G	7997Z	1050.0	1410.0	ETTE.D	-	CHBITTOWSOLDS		790
MEMAIN	81.0	150.0	9810.0	0.1729	2.4534	6170.0	7810.0	616.0	7280 OX	SFB1710VV50138	H3S	290
MEMAIN	21.0	8710.0	6.6205	528:.0	2,4558	2820.0	0.0204	1715.0	6460.0	GE102470171845		757
MEMAIN	ST.0	STF0.0	7020.0	1691.0	2914.5	2760.0	P750.0	6275.0	0.0924	GF8:710W50140		C25
MIAMER	2r.0	\$0S0.0	7850.0	1691.0	2,4451	6280.0	0.0332	0.253	6570.0	3F8:710W50141	H32	290
MIAMER	31.0	3920.0	7910.0	P881.0	2.4489	0.063	0.0245	6920	0.1023	SF81710W50266	H35	025
REMAIN	21.0	8020.0	20.0305	T821.0	2.3629	6990'0	6F0.0	0.3237	0.0825	3FB1710W50305	H3S	290

DETE. 11/02/17

DESCRIPTION OF GOODS:

ALUMINIUM COILS ALLOY 3003/H14 AND 5052/H3Z

ALUMINIUM COILS ALLOY 3003/H14 AND 5052/H3Z

O. NO. 4500839108/4500839404

INVOICE NO.: Z-RYWP171009
CONTRACT NU 4500839108/4500839404
DESTINATION: TORONTO, CANADA
SHIPPING MAR NIM
TORONTO, TORONTO, CANADA
SHIPPING MAR NIM

DAP TORONTO, CANADA

**BUYER:** 

### INSPECTION CERTIFICATE

ZHENGZHOU MINGTA! INDUSTRY CO., LTD ROLE CHANGCHUN ROLD, HIGH AND NEW TECHNOLOGY TEL: 371-67898612

TEL: 371-67898611 FAX: 371-67898612



小文

BRtib.

N 81,591

1	1		152	163	0-09-48-C	2.597*1524°C	GF81710W30048		8003
03 H14 GE8170W30032 3.754°C 063°60°C 153 150 12 10 10 10 10 10 10 10 10 10 10 10 10 10	HI4   GF8170W30032   3.1219°C   1.00°48°C   152   152   10   124   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125			18r 08r	125°60°C	3.175.1524°C	GF81710W30047	ÞLH	3003
03 H14 GE8170W30010 3.176'91219"C 168'48"C 153 130 13 10 10 10 10 10 10 10 10 10 10 10 10 10	H14 GF81709W30120 2 54*1219*C 7063*48*C 153 150 166 8 H14 GF81709W30120 2 54*1219*C 7063*48*C 158 157 10	01	135	182		3,175*1829*0	GF81710W30032	TIH	£003
03 H14 GF81709W30120 2.54*1219*C .100*48*C 156 7 162 7	H14 CERT/09W30120 2.54*1219**C 150**C 156 157	8	146		0.98.9ZL	3,175,914,4°C	GF81710W30010	HIT	3003
	2.09.000	L	1		0-84-00f.	S 27.1518.C	GF81709W30120	PLH	2003
Z1 341 3Z1 3342 376317Z1 88132KW3071833 41H 20	A GENT/06/V30032 1.27*1524°C050°60°C 156 176 176 176 176 176 176 176 176 176 17			991		1,27*1524°C			3003

We certify that 5052H32 material complies with ASTM B209-14,AMS QQA-250/8B standard.

MANUFACTURER - ZHENGZHOU MINGTAI INDUSTRY CO., LTD

今年 | 空間間を変化する[2] | でごとなって 202.0 |

		ð:	he Quality Office	located in t	SIGLS	<del>10</del> 3	
						10	ARDNESS / DUROMETER READI
						-	SIZE OF TEST SAMPLE
WEBSTER	ם אחם	A AUG	HKB	0\1		-	JAIAETAM 90 B9Y1
OJIOGJW	0 0110		ULTS BELOV	-IRC			
	S CHECK.						CUT SAMPLE PIECE
		N A HADDAILE	ND DBEEOB	17 17103.	TAN	30 :	DEDICE DIECES
					I/NI)	1	EXTRUSION REPORT
					(N)	^	DOES THIS REQUIRE AN
					M	٨	ENGINEERING SIGN OFF
							DOES THIS MATERIAL REQUIRE
					N	(4)	CORRECT M# ON THE MATERIAL
	con	CMIOPH	700	12-11	N	1	CORRECT MATERIAL IDENTFICATION
	2500	3/11/08/	1077	FOOH	N	0	CORRECT REF # TO LINK CERT
			-		N	$\dot{\wedge}$	PHOTO REQUIRED
			1020	wigh	N		CORRECT MATERIAL PER M-DRAWING
			DALA	14	N		CORRECT GRAIN DIRECTION
	-				N)	$\frac{1}{\lambda}$	CORROSION
					N		CORRECT FINISH
					N)	1	SURFACE DAMAGE
						1/1	201110
	S.	COMMENT				(CP	DESCRIPTION
						NC	
27 27 04	SED: CAN	ET SIZE BECEIN KNESS BECEIN CKNESS OBDEI	THIC SHE		75	10 hg	MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY REJECTED:
5/900	180:0N	PO / BATCH	C	810 95°57		1 83 1 YAI	MATERIAL: MOOF
	RM	ОТ ИОІТО	T INSPE	ECEIP	Я -	IAIS	HETAM

:BTAG	8102 1 1 YAM-e	: DATE:
SIGNED OFF BY:	SAG	INSPECTED BY:
ENGINEERING SIGNOFF (if required)	~ ~	ОС 18 ІИЅРЕСТІОИ

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

RELEASED 2009 -10-30

REV. B SHEET 1 OF 1 B REFORMAT DWG, ADD 8209 SPEC (ZN D8-1), PAR 08-020A CP 09 09.26 01.06.08 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M5052H32S
SHEE DS TITLE 5052-H32 SHEET SPEC CHECKED MFG. APPR. MPG. APPROVED APPR. DATE 09.09.26 NEW ISSUE DESIGN DRAWN

NTS

COPYRIGHT © 2001 BY DART AEROSPACE LTD
PRIVATE AND CONTEMMS AND STAFFEED ON THE EMPRESS CHACKS
TORAND PAUROSE ON COME ON COMMANDATION TO ANY OTHER PRIVATE

WHERE ".XXX" = SHEET THICKNESS (IN INCHES) QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4/T/8 OR ASTM B209 M5052H32S.XXX PART NUMBER:

XXX BY 4FT BY 8FT PREFERRED SIZE:

EG. 0.063" THICK SHEET = M5052H32.063

PURCHASE MATERIAL: 5052-H32 ALUMINUM SHEET SPECIFICATION:

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SPECIFICATION CONTROL DRAWING

N 64651

Others

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BW



NO.6 CHANGCHUN ROAD, HIGH AND NEW TECHNOLOGY ZHENGZHOU MINGTAI INDUSTRY CO., LTD

TEL: 371-67898811 FAX: 371-67898612 ZONE, ZHENGZHOU HENAN CHINA

Northwest w

### INSPECTION CERTIFICATE

BUYER:

6898580054 CONTRACT NUMBER: Z-RYWP180202 INVOICE NO:

2/11/18 W/N TORONTO, CANADA GINGDAO, CHINA

:3TAG SHIPPING MARKS: DESTINATION: LOADING PORT:

P.O. NO.: 45008586899

Тепрег

VOILA

**GRAGNATS** 

Lot No.

ACTUAL MILL CHEMICAL UNIT:% DAP TORONTO, CANADA ALUMINIUM SHEETS AND COILS ALLOY SOSZH32 DESCRIPTION OF GOODS:

SZ\*0

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13	183	-	-46	- 0	21.09.06	1.6	870	8-1254-3	28.₽	GFD1801W60061		2909
15	081	-	356		30-60-12		840	8-1824-30	4.82	GED1801M20028		2909
15	871		218		96-84-081		BE	8-1519-5	4.82	GFD1801W50038		2909
11	173	-	220		180-48+96		138	8.1519.S	4.62	CFD1801W50037		2025
11	CGL	-	518		S1-84-08			6.1219.3		GFD1801W50036		2909
i.	180		35		040.48-B			2,6121,9		GF81801W50083	H3S	Z909
15	98F		22		040-48-C			116-1219		GFB1801W50083	H35	2909
15	189	-			0.84.040		2	118-1219	11	GF81801W50082	H32	2003
8	204	-	Z3 Z3		21-84-040		840	6.1219.3	10.1	GFB1801W50082	H3S	2005
Zujui	69Luju			0	ST-84-030	).	846	1.1518.30	1.2	GF81801W50081	H35	2909
(%)		-	214-					GRACI	IATE		0613	C303
	(sqM)		(MF							Ň		
Elongation	Strength	1	nenta		(NI) BZIS		SIZE(MM)			No.	Lemper	.oN
	Plo:V	alip	n9T							101	203007	YollA
NEMAIN	61.0	I DCCO:O	1.01.00	STAC	EST REF	PERTY 1	CAL PRO	MECHAN				
REMAIN	31.0	8860.0	1210.0	59210	23961	7280.0	1920.0	0.3129	111.0	CED1801M20001	H35	2505
NAMBA	31.0	-	rato.0	6971,0	2,3961	7280.0	0.0261	0.3129	111.0	GFD1801M20029	H3S	2909
MIAMBA	21.0	9910.0	0.0292	5631.0	2.3789	3730.0	0.0234	\$87E.0	8901'0	GFD1801M20038	H32	2909
		9910.0	0.025	7891.0	2.3824	7520.0	1620.0	0.3298	\$201.0	GFD1801W50037	H35	2909
MAMER	61.0	38ro.0	1010.0	6671.0	2.3898	1720.0	7820,0	8495.0	0.1129		-	-
REMAIN	61.0	6610.0	7020.0	0.1627	5'4638	6910.0	0.0248 7820.0	0.3648		GFD1801M20036	H35	2909
REMAIN	81.0 81.0	0.0199 0.0199	0.0207 0.0207	7291.0	5 4639			-	0.1045	GED1801M20036 GEB1801M20083	H35	2025 2025
REMAIN REMAIN	81.0 81.0 81.0	20.0 9810.0 9810.0	7050.0 7050.0	0.204 0.1627 0.1627	2.4639 2.4639	6910.0	8₽Z0.0	1115.0	0.1045	GED1801M20092 GEB1801M20083 GE81801M20083	H35 H35	2025 2025 2025
REMAIN REMAIN REMAIN	81.0 81.0 81.0	\$0.0 \$0.0 \$0.0 \$10.0	700.0 700.0 7020.0 7020.0	0.204 0.204 0.1627 7.281.0	2.46 2.4639 2.4639 2.4639	6940.0	0.0249 8≱≤0.0	1115.0	0.1045	GED1801M20030 GEB1801M20083 GEB1801M20083 CEB1801M20083	H35 H35 H35	2025 2025 2025 2025
REMAIN REMAIN	81.0 81.0 81.0	20.0 9810.0 9810.0	7050.0 7050.0	0.204 0.1627 0.1627	2.4639 2.4639	0.063 6340.0 0.0469	₹10.0 6≱50.0 8≱50.0	1115.0 1115.0	860.0 8601.0 8601.0	GED1801M20092 GEB1801M20083 GE81801M20083	H35 H35	2025 2025 2025

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